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<213> Zea mays

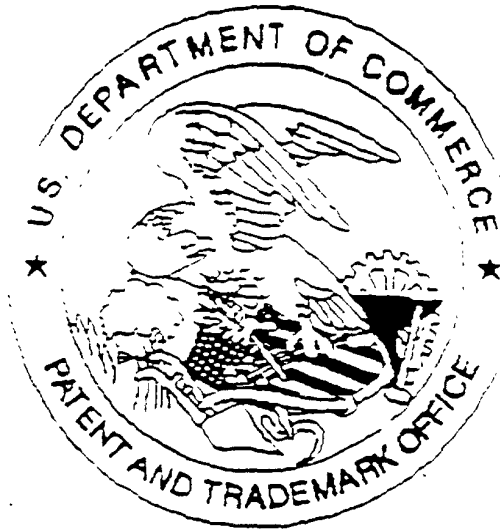
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Sheet 21362 WERE MISSING

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 <223> unsure at all n locations
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 gcacaaagga aggccgcacc ggcaggcagg acggcaagag ctaccgcttc ttcgacgagc 180
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<213> Zea mays

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318

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<211> 431

<212> DNA

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<223> Clone ID: LIB3078-033-Q1-K1-B10

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<212> DNA

<213> Zea mays

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<212> DNA

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 <223> unsure at all n locations
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 <400> 49893

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cgagatggag ataagcaggt cgcagctcta cggcgagggt atggcgtgca cgtacgagga  420
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496

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<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E10

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ggacaaatct aactaccaca cgacgcataat ccaagccttg aaatcacaca tcaactgcat 180

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taacataa 248

<210> 49895

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-E12

<400> 49895

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caacaagtat gttggcaacc ctgaagccaa tgaggaaaac gtaattttta aggcagaaca 240

agatgccccaa attgggtcatg gtaaaagggg agatgtcaca atactaccaa cccttgatcat 300

caacaacagg caatacatat gtaagctgga caaagttgct gtccctgaaag cgatttggtc 360

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<211> 396

<212> DNA

<213> Zea mays

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<400> 49896

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<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G12

<400> 49897

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gttaaaaaat tcaatgcatt gtatgaacia ttttatitaa tgagttcaag agaagacttt 180
attcttgcac aatttgtacc acgttgtaaa ctctgtctca cagggtatttg ctacacatgt 240
cgtacattta aacatcttac ttatatattc tcattttaac t 281

<210> 49898

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G3

<400> 49898

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tacatcttga cccaacaggc gtttgtgact gttgacaaga aagcacgat caaccaagac 240
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taatatgcct gggcttttg 439

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<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-034-Q1-K1-G7

<400> 49899

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tccaaggctg acaaggctac ctagagtatt gttgttcttg ttttatttat ccctctgctg 240
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gtgtcagctt ttgtgggtctc tatggattat gaagtatgcc taaagaagtt ttttgggtgct 360
caat 364

<210> 49900
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-035-Q1-K1-A1

<400> 49900

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tacctatcct accttaccac ggtgcttttt cttgacaata tgaaaccctt ttaaaatgtt 180
cacatacttt tccaacccaa atacttcgtt gaattaatca ctcatcagaa acaaacttcc 240
ctatactttt gtcaacata 259

<210> 49901
<211> 507
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 49901

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gngctgataa cacatgagcc aagaaccttt acatcatttc tgtgatggga atcaaggggc 180
gctctataca gtcttatctt tgtctttggt tgttacattg ttatagtatc ttttataata 240
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tctatactat ttttatttat ttctctctat tcataataat tattatttat tttattattc 420
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<210> 49902
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gcagctgatg catctgctgc ggtatgtacc ctgacgtgta gaccgacttc cccaccttcg 180
tcaagaccac tgtcctcgct cagctgccgc ctctattcag gatccaatct ttcttacgcg 240
tgcttgcaac tttatatttt ttctatattc ttacataaat ttaatttatt ggcttcatt 300
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<210> 49903

<211> 171
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49903

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<210> 49904
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49904

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 cgcagtgata gccatggctc gtggcggatc tgggtgccgt cttctcgtcc tgctcctagt 120
 cttgactgcc ttcaatggca gctttgcagc tcgacatctc ttggacacag caactgcgcc 180
 agaggccacg cctgc 195

<210> 49905
 <211> 152
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49905

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 cgtatctttt tgccggcttc tcgccctgct cctagacttg actgccttta atggcagctt 120
 tgcagctcga catctcttgg acacagcagc tt 152

<210> 49906
 <211> 339

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-035-Q1-K1-D2

 <400> 49906

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 cgtcaccctc gctgggatcc tcggcggcgg cgcctctctc gtctacaaca ccagcgccct 180
 ctccggctaa ggatatccaa tgcattgcgt tcttgcgatt cgtcatgtaa aatcagggtg 240
 tctgtctata atctagctc catggatgct caaccttcgt catgtaacaa taatcagtgc 300
 tactcttcat tacataattt ggatgctata tatataaaa 339

<210> 49907
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49907

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 tgctgccctt gcatcttctt tatttagtta tcttttttct tttctttttt ttattatcta 180
 tttcttttat tttctttttt ttatttttat ttattttttc tttttatttc ttttttttta 240
 tctttctatt ttattatctt ttctt 265

<210> 49908
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 49908

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cgccctcaggg cctgccgccc ctgcggccgcc gcgcctcctt ctttgccgtc gtctgcttca 180
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 atttgactcc tattcagttg actaactatt tttctttatt ctcatatacc attttatttc 360
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 attatttatt tttctaataca agctcgta ca ggcttattgt gcacagacaa attaattggt 180
 tttcatgtgc gttccttttag gttcagacat atttgaata ccagactccc ccaattcttg 240
 ccaaaaaata ggcagttatc aaattnaaaa ata 273

<210> 49910
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-036-Q1-K1-A9

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 aagggaggct gctgtggtca tacaaggtct aaaaaagatg ggtgttcata cagttatggt 180
 cactggggat aactggagga ctgcacgagc agttgcaaag gaggttggca tcgatgatgt 240
 cagagccgag gttatgccgt ccggaaaagc cgatgtaatc cactccctgc aaaaggatgg 300

cagtgttgtc gcgatggctg gagatggcat caacgac

337

<210> 49911

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B2

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ttccagaaag ctactatcg tttgttagca tcttccactg tatatttctg aaatttttag 120

atctattgtc tgccttttat ttttatact aatatctcat tatttttctc cactttttta 180

taatcattta tattttattt catttttagt tttatttttt ttattttttt tattttttta 240

tttttttttt attttatttt tttttttttt ttctttcttt tttttttttc tttttttttc 300

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<210> 49912

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-036-Q1-K1-B4

<400> 49912

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cacgttggtc gtccccctct catcctgctt tatctgctta tttaacctta taatctcatt 180

tagtatctta cttttacatt ctattttttt aattatttta tatctatatt ttttattttt 240

tttttattta tttcttttat attatttttt atttatttta tatatttata tattatatat 300

ttattttttt tttttttata ttcttttatt tattt 335

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-B5

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acggggaggtt ccatgagcag gagatcgaaa agcttagcac ctattcaaga agttcattct 180

atagcaccct cacaagcgcg acacccatct caagttcaat ctcgacgagt tacaacaatt 240

atagcatcat ctctagtgcg gtgactgttg ctgttccaca ttgtagtggt ttttctgatt 300

cagtttaacc tgtattttgt tttttatttt attttttttt tttttt 346

<210> 49914

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-D1

<400> 49914

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actctcgctg ggccatgctg ggcgcgtggg gctgggtgtt cccggagctg ctgccccgca 120

acggcgtcaa gttcggcgag gccgtgtggt tcaaggccgg gtgcgagatc ttcagcgagg 180

gtgggctgga ctacctcggc aaccgagcc tgatccacgc gcatagcatc ctctccatct 240

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<210> 49915

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-036-Q1-K1-D10

<400> 49915

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gacaagatca tttgggacaa ggagattgaa gtagctgacg agcatgctaa gaagcctctt 240

gaggaggtga ttcaggctgc aacgaaagcc cctccttcaa gagacttcta tggcgcttta 300
gaagctgcct acaagcgtaa tgggggtgcct gcattgattg ctgagggtcaa gaaagcatcc 360
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aaag 424

<210> 49916
<211> 433
<212> DNA
<213> Zea mays
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<210> 49917
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<212> DNA
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<223> Clone ID: LIB3078-036-Q1-K1-D2
<400> 49917

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<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-D7

<400> 49918

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gtccaggggc agcagcagta gcgtggcgaa ggggtcacca ccaccagcct tccagttcca 180
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t 361

<210> 49919
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-E10

<400> 49919

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tcaacaagca agaaagcaca tggcaagcgg caaggttgca catgccaccc tcaagggcc 180
gagtgaggct gaatgagatc ttcattggac tgaccc 216

<210> 49920
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-E11

<400> 49920

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 gccgaccccg tcaacaacaa cgcattggcc tatgccacca actttgtgcc cggcaagtga 180
 gggggtggag gcgccaccgc ccaccggcca ccgctgcgga tatctaggtg ttcggatgca 240
 cgtgagcgcg cactggttcc agtttgtacc atgatgtaaa ttacttaccg taccagggtt 300
 caatcggcaa ggaagaattg ttgtgttcaa aa 332

<210> 49921
 <211> 362
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-036-Q1-K1-E7

<400> 49921

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 cgagtctaga atcaatttat aataatgtta tcatatcatt ttctttttta atttaatatc 180
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 ttctatttct ttatttttat attttttttc tttttatttt atttatttct tttatttatt 300
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 tt 362

<210> 49922
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-036-Q1-K1-F11

<400> 49922

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 caaaataatc taggatgctt ctttgtactg caaatgtctg aggctgagaa tctnccctac 360
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<210> 49923

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-F2

<400> 49923

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 agataaactg taaattgata gataataaga tgttttctat ctcatgttta gtgtcaaact 180
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<210> 49924

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-F4

<400> 49924

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 gcatcgaccg tgacgtgaga tatcgtagtc taattattgc aactggagct actgctaagc 120
 acctacatct acctcgtcaa gataaattct gcagtttcgg catcaactca tgtgcaatat 180
 gagatggacc ttcaccactt ttcaaggctc aggttcttgc aattgttatt atttgtgctt 240
 catatttata atgatctgtt cttttattta tttaattatt ttattttttt ctttttattt 300
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<210> 49925

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-F6

<400> 49925

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ctcttttcgcg caatgtcatc tgctcgaagt tgtatggcaa gggctcgaag tctggtgctt 120
caatgaggtg ccttgggtgc cagggtcat gcatgaaagt cactattctt cagctgtgcc 180
cttccatgat acagcatatg catcagtctt tcaatgaatt caattgtact gtatagagca 240
ttatttttat ttacctgtat gttttttgtt ttattgtttt ttaatctata ttttttatat 300
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<210> 49926

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G10

<400> 49926

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taacgcagtt ccctccgccg cagcccgatg catgatgggt ctccagagcg acattgatct 120
gctcaaccgg ccggcagAAC tcgagaagct caagcacaag aaaaagagac tcgtccagtc 180
tcccaactcc ttcttcatgg atgttaagt ccaggggtgc ttcagcataa ccactgtttt 240
tagccactcc cagactgctg ttgtgtgcc tggctgcca actggtcttt tgctactcac 300
acgacgaatg gcacggctta c 321

<210> 49927

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G12

<400> 49927

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taaagaggtc gagaaagagg cggatgttcg gttaagatgc atagcagcag catgaatagg 120
gagatcagct aggcctacga caccattctc tttggcatca acgcctgctt caaagtcgac 180
cttgccacgt cgtatctgtt ctagtctact atccaatctg agactaagtt ctggtctgac 240

atgattaagt tcgttactga ttctatatac tgatctgttt taatatacctt aagtttttta 300
 ttcataatgt gtcttttggt ttcattatgt tttttgtggt atgctcttat ttttattttt 360
 ataccttttt ttatatactt tttttttttt ttattttctt ttgttttttt tttttttttc 420
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<210> 49928

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G4

<400> 49928

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 agtgtcggcg aggttattta caacaaagag actggccaga gccgtggggt ttgcttttgtt 120
 accatgagca ctattgagga agctgataaa gccattgaga tgttcaaccg ctatgacatt 180
 agtgggaggg ttctgaatgt aaacagggca tctcctaggg gcactcgcac ggaaaggcct 240
 tcgagacaat ttgcgcctgc tttcagagct tatgttggca acttgccatg gcaagctgat 300
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<210> 49929

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-036-Q1-K1-G7

<400> 49929

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 ccctgttggt atcgggtgttt caatgggatc cgttactgag ctctcatgca actggactgg 120
 cttcatcaat gccatgatat caaacatctc attcacctac aggagcattt attccaagaa 180
 agccatgact gacatggata gcaccaacgt gtatgcttac atttcaataa ttgctctcat 240
 tgtttgcatt ccgcctgcag tgatctttga agggccccgg ctaatgcagc atggattcag 300
 tgatgccatt gcaaaagtag gcttgacaaa ttttggttag 339

<210> 49930

<211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-A6

 <400> 49930

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 ctccaagtgg tgcaagaagg aagagagggc gcatgatgat ggaagatgag gatccattga 120
 tatgcactgt cactgaatct tttaagactc tttcatgatg caatcaagca gtcacacca 180
 tcatccacag tccgataatc ctaccgaacc tatggactat gatgaaacag attcctgttg 240
 ttgaaagaga acatatagct gactactatg tctacttggt cgagaatata tcccttgctt 300
 atgccttctt agagatggaa ctagatgatc aaatggtagt ggtgtctagg tacatcaaga 360
 ctcatctctg ctgattga 378

<210> 49931
 <211> 76
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-B6

 <400> 49931

 aactaccggg tgcaccgacg cgtccgacca cgcgttcgca acatatggct tttaaagttt 60
 agaaccatga tcaaaa 76

<210> 49932
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-037-Q1-K1-B8

 <400> 49932

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 agtgggggaa aaacaacttg cggctgggtt agtgaagctt agtagctacc actattcaag 120
 agttaaaggg agttcgtatg acagttcctc tggagatggt atcttcaaag tcttatatca 180
 ctgctacttg tgagctgtgt taaaacctat atatataagt cacgtttgac gtgactgcat 240

taaagatagt acaaaaag

258

<210> 49933
<211> 606
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-037-Q1-K1-C7

<400> 49933

gggccgtgta attccccgggt ccgactccac gccgtctcgt cggaccgccg taggggggca 60
gcccacatg ttctcgcagc atctcggctc tcnnnggcaa acntcncna agaactctgg 120
gggcgcgtcc taggggctcn ctagcaccag ttanntcgtc cgtctnacca gcttcgcnnt 180
cgcgtagccc anngetteet gggtttccct ttcttccttc ccgcgccttc ggaccatcgc 240
nncagtgaag ggcccgcgcc gcgccccgtc gtttgaaaat cctgggttttc ttcctatct 300
cgcnntgcgc tcatcgtcgt cgtcttcctt gctttcgttc ccgcaccgtc gcttcccagt 360
ccaacagctc gttggctttc ccttggtgccc ccggttgccg atgnnccgtc gccgatccc 420
ttgttngcct tggcccgatc ccttggtgcc ttgccgaagc tcatcanccg ccgcgaggac 480
tctgnncatc gctgtgctca agccacgcct tncctagtcc gtcttgcaaca tacctcatct 540
ccaaacaggg gaccacgctg ccgactatct gaccccgctg ttgcctcgca gcgctcgaac 600
actatc 606

<210> 49934
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-D1

<400> 49934

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ccagtggcga gagtgaacat cgacacaggg ctgtacgagt cctgcgacgg tgagggcaca 120
aatgcacagt cgctagctga cttcgccaag caactctctg acgagcgcaa gctacgcaag 180
agcaatctca actccaacta ataaatacct ctctcagtca cagcatgtgc tctttccgca 240
gattcaccgt ttcttatttt taatttaatt tcaattctgt gtgtgtgtga ttgtgtgtgt 300

gactgtgtgt gtaccaataa acattttaagt tcaatcaaaa 340

<210> 49935
<211> 505
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-037-Q1-K1-G1

<400> 49935

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agcgtagtcg tgcgccgaag gaaaggcgcg gagcaagggtg tcgtggcagg cgtacgtcga 120
cgagcacctg atgtgcgaga tcgaaggaca gcatctcagc gccgccgcca tcgtcgggtca 180
cgacggcagc gtttggggcg agtccgagag cttccccgag ttaaagcctg aggagggttg 240
tggtatcata aaggactttg atgaacctgg tactcttgca ccaactggtc ttttcggttg 300
aggtacaaag tacatggtga tccaagggtga acctggagtt gtcacccgag gaaagaaggg 360
cactgggggc attactatca agaaaaccgg catgtccttg attattggtg tctacgacga 420
gccaatgact ccagggcaat gcaacatggt ggtggagagg ctgggcgatt acctgattga 480
acatggcttc taaaagttcg ctata 505

<210> 49936
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-037-Q1-K1-H4

<400> 49936

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aagggtcntt acggcatact cgctggcgca gnnctgctcc tcacgcgacc gccgtnnctc 120
cgccctctac cgggtttctc aaccccatec ctcaatcgcc acgcctcnnt ccgactccnn 180
ccgggcctcg cgcctcgtgc ctcnngcct cctggggcct tcatectggg atgateccat 240
tgtanntcat tatcagcacc aagccacca cactatattt cgttttccct gggtnctgtt 300
cacagttgtg ccttgagcnn nntcagcatc ggtnnngtggc ttgtgectaa ccaccaagg 360

ggannaaatc gttctggagg gccttttagtg gctgaccggc nntggcgtgg tgnnngtttc 420
tctggacctg gcgta 435

<210> 49937
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-038-Q1-K1-A1

<400> 49937

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gttcgccgcc gacggctcga ggtggccgag cgaggtggag ctggagcacg ccttcaccca 120
ggggaagtac ttcgcaggca tcgccaagaa gctcaagggt tcagcctgat ctacacatat 180
acccttgtcg gatatacataa aaaacactta ttacagattc gtcttaccga tcaatagatc 240
ggtctgttct ctcggtgtgt ctggatgttg tgtggctcag tggaactttc atgctacggt 300
gactntgttg taatctggag ttggaatatn cgtgtttcgc ataaatttcg atgatttgct 360
caagtaaacy gtttgtttgg ttcaaaa 387

<210> 49938
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-A10

<400> 49938

attccccgggt cgacgcacgc gtccgcccgc gcgtccgcac ggagcccaag aggctttcat 60
acaagcccct gcgtctgccc ctccggtatg tgtacaagat tgggtggcgc ggaactgacc 120
cggacgaacc tcttcatact cggcttcttg cggcgttctt ctaagcctcg cctcggctta 180
atggggcctt ttggaactca tcgcgggatc tgcttgagtt gacaaagcat ggcattctgcc 240
ttctcgccat tcttgtcate tttgtcggga caatcatgcc tatatcattg actggccttt 300
taatcttcat gttctttctg ctaattgccca cttctaata 338

<210> 49939
<211> 331

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-A3

 <400> 49939

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 cactggtatg ggtggcctcg cgggtgtttc tgatggtgtt cagaatctca ttgagaaggg 120
 ctacagaaaa ataactcctt tcttcatccc atatgctata acaaacatgg gttctgccct 180
 gcttggaatg gatattggtt tcatgggtcc aaactactcc atctcaactg cctgtgctac 240
 ctcgaactac tgtttctatg ctgcagcaaa ccataccgt agaggcgaag cggatataat 300
 gatagctgga ggcactgaag ctgcaattat t 331

<210> 49940
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-038-Q1-K1-B12

 <400> 49940

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 acatccgctc caactgggat ggaaattgcg tttgtggaag ttcgtaaaca tgggctgtgg 120
 cttttggcta aaaatgtgaa acagtatatc cacagaatac ttgttgaggc tgacttcagt 180
 gctggaactg gtgatgattt atgggctgct gtggcgaag ctggtaaaaa cctttacgct 240
 taaggcgaat tcaaagagtc gcaagttgca aaccttgatg tctatttggg gaaaaaggg 300
 tggacttttc cctgatgtta taaagaagaa aacattgcgc catcttgaaa aatgagataa 360
 tgtcttaac 369

<210> 49941
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-038-Q1-K1-C10

 <400> 49941

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 ttcccttgct gaattcgtga actctcacc gctcgaaaag aaagaagcta gcttttagca 120
 tggcgtctct ggcgttcggc agcaccgtag cggcggccgt ggcggcgacc tcggggagga 180
 cgcgggccggc gcgccgggtcc gtgctggctg tgccgcccgc tgccagcaag ggcggcccgg 240
 cgccggccaa tgaagagaaa ggcctcggcg agaccatctt cggcttcac tcgaagaaag 300
 accaacttgt ggaaacggac ccgc 324

<210> 49942
 <211> 211
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-C5

<400> 49942
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 cccttgagg aggtcaagg ggagctcgcc ctcgtgcccc agtccccaga caagtcgctc 120
 gcgcgccaca agttcgtcga tgactgagag gccgccctta acgagcagat caacgtggag 180
 tacaacgcct cgtatgcata ccactccctc t 211

<210> 49943
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-D11

<400> 49943
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 ttaatacaat aattaatata aatatataaa agtatatttt tgccttatgg aaatattttg 120
 gattgttaca ctagtacata catgtgaaat atggattttc acgtcgata 169

<210> 49944
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-D3

<400> 49944

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gtgggtggcg acaaggtgcc gctgtacggc ggcggttcgg gcctgagcag caccgcgact 180

acgttgccgc cggccaggaa gcgcgcgcgc ggcgtggtgg tgcttctga cgcctgccc 240

ctgcagctgg cgggtcggtt ggcgtcgcg gcgttcgtgc tgggcaggct cgtcgcccc 300

aagttctaca ccgaggcgcg gtgccgcgtt accatggacc agaccaggct cggcaggccc 360

agtctccctc gtcaaggcct gcacctacac tcactagcta gcgtaacaca cacacgc 417

<210> 49945

<211> 401

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-D7

<400> 49945

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gcgccacaag ccggcagcga tgccaagtca tgcgtgctg ccgtccttga ttttaccggg 180

gaaagagctg tgtgtgaggg tctgaagtga agaactgcc atgcccattgc gtgtacatta 240

tcgagagggg gaagaaacct tctcattctg atctctgata tgactgctgc ttcagattgc 300

gcctgagata tgctaagttt ttgaaagcta attagtctgt gcacattaag ggtgcgtttg 360

agttggatta tttgtgaatg ctagctnatt ttaacttaaa a 401

<210> 49946

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-E1

<400> 49946

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gcgtncgaac agggagtcgt gatcgcggtgc cacagcaagg ctgagtatga cgcccacatg 120
 accaangccc cangaagccg gctagctggt ggtcattgac ttcactgncg cctgggtgcgg 180
 tccatgccgc gccatcgnc cactgttcgt cgaacacgcc aagaagttca ctcaggtcgt 240
 gttccttgaa gtggancgtg acgaagtga ngaagtcacc gctgggtacg aggtcgaggg 300
 gatgccgacc tttcacttcg tcaagaacgg caagacgggc gcgaccatcg tgggt 355

<210> 49947

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-E7

<400> 49947

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 gagttcatgg agagatgtca catcctagtt cgtcgtcacc gtttgccatg ggtccaatgg 120
 ctcgctcttg aaacctgcac ttcagtaggc catctatcgt ggtttctagc tatatccaga 180
 gttttgtgct aagacaaatc agtcagtcgt tttgtgaacc tattatgatg gagctttatt 240
 tgctgctaaa aa 252

<210> 49948

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-F9

<400> 49948

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 ttctcacatc atatcttgcc aataagggca tacgtatgaa aataaaacgg gctacgtttg 120
 tatacactta taccgtgtta ctatgttagt gaaatagtga agtaacatca tttgggaacc 180
 ttgctatgac ttatgagctt attctccttc t 211

<210> 49949

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G11

<400> 49949

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ccttccccta tggttaagta ctcacaggag ccggtctacc ctaccaaagg ggccaacgcc 120
attggaaggg acctgagggg ccactttaag aacacaaggg agacagcttt tgcgcttcgc 180
aagctgcctt tgaccaaagc taagcgatac cttgaagatg ttatttctca caagcaagca 240
attccct 247

<210> 49950

<211> 493

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-038-Q1-K1-G6

<400> 49950

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taaaaggcta tcgagatcga tgaggaagct tgcaagagag ctgagggaca cagataaata 120
tgagaacgag cagtaccagg acaaaatgag gcagtcagat gaacggctcc tggccctggg 180
caaggcggcc atggacgtgg tcgtggccgt cgggcttctt cagctggcgc ccaagaaggt 240
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aaaaaaaaag aggcgacgct ggaaatcgat ctctgcttca acaatggatc gtaatataat 420
tgtattatgc gaatataagg cangetagct atgtattntt ttattaaaaa atagtacaac 480
agaatagaac acc 493

<210> 49951

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-038-Q1-K1-G7

<400> 49951

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gagccccaca aaatgggcat ctgtattcaa ttgcatcgac taggtatgga tgataacttt 120
gatgggcgaa ccggtagctt ggggtgtccc cgtgcagttt attatgatcc tgaaactggc 180
caggaagacc cctaaaagaa tgggtgt 206

<210> 49952
<211> 185
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-038-Q1-K1-H1
<400> 49952

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agcctggagc ctcacaaaat gtgctggctg attcaattgc atcgactagg tatggagata 120
actttgatgg gcgaaccgca agcttgtgtg ttcgacgggc aggttattat gattctgaga 180
ctggc 185

<210> 49953
<211> 262
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-038-Q1-K1-H8
<400> 49953

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gtaacgagcg aacaagggtta ccagaaattg ggcgatatag atttactagg tctggatctg 120
taatectccc tgcatagtct ttattcgtaa ctcgctgtcg gcacgaaagt tgggtgtgcgt 180
tttagcagaa tgctttctgt ccgtgaaagt aaacttgaaa ctgcttatta cgactgaaat 240
gatattgtcg ttcccccaa aa 262

<210> 49954
<211> 377
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-039-Q1-K1-A10
<400> 49954

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 cgaatggatc atgttgctag aagaaagggc tgtgcagttc aagtagcggc tgagaagggg 120
 ctctttgcat tggctataaa tctacaagtt cctggcacta caaactacag tatggttttc 180
 tactttgtta cgaagaaact gataccaaac tccttattgc aacgctttgt ggatgggtgat 240
 gacgaatttc ggaatagtag gttcaagttg ataccatcag ttcctaaagg ctcatggatt 300
 gttcgacaaa atgggtggcag cactacttgt ctattatgaa aaagctgtga cattacctat 360
 atacgtagct caaatta 377

<210> 49955
 <211> 288
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-039-Q1-K1-A2
 <400> 49955

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 tgccgacgag cacgggcgcc gccaaaggccg tggcgctggt gctgccgcat ctgaagggtga 180
 agctgaactg catcgtgctg cgggtgccga ccgcaacgt gtccgagggtg gacctgggtga 240
 tctacaccgt gaagactggc atgacgggtca aggacgtgaa cgcggttt 288

<210> 49956
 <211> 298
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-039-Q1-K1-B12
 <400> 49956

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 gtgcagggga cgaaaataa cacacgatgg tgtgttgctg ctctagtggg cggagggtccg 120
 tcagattctt cttttttttt tgtcccattg ttgagacagc aaccgaggat ataagattgg 180
 atggagatga ggtctctgtt tggcttgctg tgatgcctgc atgatgtgct ctgcgatgtg 240
 catccagttt tgggatcaag ctgctccact tttccggagc tgcccttgca tggatttt 298

<210> 49957
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-B6

 <400> 49957

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 gtaagggtgaa gaaacattcg attcatcatt ccgtggccat gctaataag ttgtggagga 120
 aagaattgct gacaatgatg taattctggt aaaaggccca aagaccacca acgcggtctt 180
 aatattacta agggccccaa atgcctactt cttgttaag attgaacggt cttgcataa 240
 tgccctgtcc atgtgaaaga gaaccttgaa atcaaatatg gt 282

<210> 49958
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-C12

 <400> 49958

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 aaccgcagcc ttgtccactc tcagaggatc cgggctatct ggtcttgcca tgagggtgctc 120
 atgggcgcca tcaagggtta ccgcgtctcc tatattcttg tcgactagta cattcatctt 180
 actatgcgct cttctcagga cttgaatggt agacttactg tttattttta aggagaagaa 240
 tgaattgatg ctgttgggct gacaaggga ttgttccaat catttttact agtcattttt 300
 ttcaaaattg ccctttttt 319

<210> 49959
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-D1

 <400> 49959

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ggcacagagg tgcgacgtac gacgagtacg actcatgcgc cacacatggc atcccagctc 120
tccgccgccc tgccccgggt ccacggcctc cggggctacg ccgcgccag gtccgcggtg 180
gcagcgtgc cgtccgtgag ggtgggcagg aagaggctgt cgtcgcacgg catccgtgc 240
gactacatct gctccgtcac caacctgac atg 273

<210> 49960
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D11

<400> 49960

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tgctcggcct cgtcgcgtc gccttcacgg attgcgtcac cggcgcaccg ttcacaaacg 120
cgtataggcg gttcagtcca agccagtgtc tatatatattt ggaagttgga actgtgtatg 180
ctagtcagct atagcggcac catgcccgtg gtacgagcct agctacagtt ggacgagcta 240
ctttttattg ggatttacta gtcttgggcc atttacttct cttcttatta aaaa 294

<210> 49961
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-D9

<400> 49961

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gatggcggtc gtcgacgcgc gcttgagaga gagtgcctcc tgcacccgcg tcacccccga 120
cttcacaaa ccagggatca tgtaccagga catcacgaca ctgctgctcg accccaaagc 180
gttccgtgac accatcgacg tcttcgttga gcggtacaag gaccaaagga tcaccgtagt 240
tgctgggtgtg gaagctagag ggttcatttt tggctcctct atcgtcttag ccatcagtgc 300
gaaatttgta cctttgagga agcctaaaaa atttccaggc gaggaaatct ccgaaaaata 360
ttctcttgaa tacggaactg acaagataaa tatgcatttt ggagctttac 410

<210> 49962
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-E9

 <400> 49962

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 caccttccgc agccatggca tcagtaacgt tccgggcgtt cgcgccgagc gagggataat 120
 cacctgacgg caggacaact attcctcgta cgaccgtacc gagctcacca agcctatgta 180
 cgtcttcgtc cggggcaagg tctacgacgt caccttcggc cgtggcttct acggccccgg 240
 cggcgcctac gccgtcttcg c 261

<210> 49963
 <211> 208
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F10

 <400> 49963

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 ttgcaccaca aggtcgagga tgtgtggcag ctgcggatca agctgcggct gctgctcaag 120
 ctgcaagtgc ggcaagaagt accctgacct ggaggagacg agcacogacg cgcaagccac 180
 cgtcgtcctc ggcgttgccc cggagaag 208

<210> 49964
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-039-Q1-K1-F5

 <400> 49964

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 cttatagtgg cacagttatg tgtgtaacta ccgatcgtgg aacggcctaa tgtatttcgg 180
 ttgcctcaga tcgatctata tgtgcgtata cattatgtac tgaaaagtgt gtagcgtctg 240

gttaatgtat gagcagtgtg tatgtgaccg ggacccggtg tgtagttgct attactacca 300
tatccggtga atgatcaaac cttttggtgt attaaaacta gatgttcac ccaaaa 356

<210> 49965
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G10

<400> 49965

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aacgactgac tgatttgtct tagcacaaaa ctctggatat agctagaaac cacgatagat 120
ggcctactga agtgcagggtt tccaagacga gccattggac ccatggcaaa cggtgacgac 180
gaactaggat gtgacatctc tccatgaact cacgccatcg aaaaa 225

<210> 49966
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G12

<400> 49966

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gagcggatcc accggagcaa cttggtggcg gtggggatca ttctgtctg ctttcaagca 120
agagaggatg ccgattcact cggcctcacc agacgtgagc gctacaccat ccaccttcct 180
accagcaccg gcgagatcag tcctggtcag gacgtgaccg tcacgaccca cgactgaaga 240
tc 242

<210> 49967
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G2

<400> 49967

cccggtcga cgcacgcgtc cgcggacgcg tgggcccagc ctactcgact ctttgtgagc 60

tgtccgcaag aatcttcacg gaggggtcta tagcatggag agcgtcgagg gcgacagcaa 120
 gtcggccagc accgtccggc tectcaagta caccgaggcg gtgccgatgc tgacgttcgc 180
 caaggagaag cttgagacgg cggacgacga gaacaaggtg gcgtcgtaca gcgcggtgga 240
 cggcatagct ggcggatttc tacaagaact tcaagatcac gctgaaggtg actcctgcta 300
 aggctgac 308

<210> 49968
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-G7

<400> 49968
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 ccacagcatg caccaccatc acgtaggggg gcgacactcc tgtggttatg ccgcacctgc 120
 ccgttcacgg ccaactccgtg ccgcctgtca ccaagccgcc gcccgtagac gttcctgagc 180
 acaaaccggc gccggtgccc gtgccggacc acaagcctcc gtcgacaccg tctgtcgacg 240
 ctctgagca cataccggca cctgtgcccc agccagagca c 281

<210> 49969
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H2

<400> 49969
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 caggctggtg caggcattgt tgccgacagt agcgcggatg acgaacaacg tgaatgcgag 120
 aataaggctg ctgcactagc tcgggccatc gatcttgacg agtcagcttt tgtagacaaa 180
 gaatagtgtg ctatggttat cgttttagttc ttgttcatgt ttcttttacc cactttccgt 240
 taaaaaaaga tgtcattagt ggggtggagaa aagcaataag actgttctct agagaaccga 300
 agaaatatgg aaattgaggt tatggctt 328

<210> 49970
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H3

<400> 49970

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ttacataaga ctcataacaa gagtagaaat tattacgaaa acgggggtaa cgtgtgcttc 120
gacaactttg gtgacaaggt gaagaattgg ttgaccttta atgagcccta tacatttact 180
tcattttcct atggaaccac tgtctcatgc cccatgacga tgctcacctg tactagactg 240
taccatctca actgataatt cactcgtcta accttacatt gctgaccaca acattcttct 300
agcccacgct taggctgttg atctttacta caagta 336

<210> 49971
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-039-Q1-K1-H4

<400> 49971

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aggccaacta cgctgcagc tactagctag gcctcgcgca tcatcagcgt ataacgtacg 120
cacgcaatgt tcgttatata attccatacg tatatgggtg tgcaagggtcc agaccgacca 180
gctgtatgtc ttcacgttg cttcgtttc tgcgtcgtcc tcccatgcat gtttatgcat 240
gatgccgtgc cgtctcgttg tcagctggtt cagtagtgat gcttactttc ttgtcgttgt 300
tgctaatagta agaaataaga cgatgcgttg actgcttaaa caaaaa 346

<210> 49972
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A1

<400> 49972

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ctgttgagaga agacaatgaa aattgcggtt gagggtttgg tcgacatctt tcttagtggt 120
 tttcatgaga ataagaccaa cgattttaga ttgctggatg cgaatgggtt ttgacaactg 180
 atgcctgagc ttgagtattt tgagactgta ctgcacacgt acttctcacc tgaggcgcaa 240
 caggctatga aatctttaca agagaattag ttggaaaagg cctgtgaatg tgttgagcaa 300
 gccatggaaa atcctggaca ccaacttcga ccaaccctgg gcagtgaaga tacagcatcg 360
 gatgacagac agccattcat atcacctgtt gatttgcttg ggctt 405

<210> 49973

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A7

<400> 49973

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 catgagatga gcacgctaga tgtacatgat cgtcgtcgca agtgctctgc gtgcgagcat 120
 gatcaaccat atgaactata actaggcgcg cagtttgctg tcaactaaca atccacctat 180
 agcagctata cttcagggtcc acgttcatca acatataatg gcacagaggt tgaggagcct 240
 gacgacaaag atatctacgt aaactattac atcgaccata gctgcttcaa caccgatat 300
 gcatgcctga cgagaactta catccaaatg ctagcgcatg gctaggaatc atcatcttga 360
 gca 363

<210> 49974

<211> 521

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-A9

<400> 49974

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 tgcagatctc tgttctcccc ctgcagacaa tgcacaaagg aagagggaat cttataggtc 120
 tgctctgcat gactcgcgca ataaatttcc aaggatgcaa tcacaatccc aaggcatagg 180
 aagtgtgca gggaacgccc taattccacc gcagcttcgt ggaaggagca atgttggttac 240

cgaagacatg agcaaactct ttgtggctaa acgaaaagag tagcatctta accttttctg 300
gacctgaacc tctgtttgga ctccatagac tgataaacgc atgtactgag tgcaatggat 360
gtgccggcat gatccaaggt tgttgctgaa tcctaaagaa cccggacgaag gatgctaacg 420
gtaggacaac ctgggtctctt agcctaccgt gggctgttgt cagatgtcaa aaatgccttc 480
ttagaaattt agaacatttc tttggtgctc actcgcgttt c 521

<210> 49975
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B11

<400> 49975

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cattgctccc atctctcagc catctacgaa gaacataggt ccatgttgta acttcagctg 120
ggcttcttat ggcaatggat acatggctgg aaacttttagc gacagtgatg aagattatgt 180
taattctact gtgctagaag cagttgatgt gagaagtgga tcggaaggat atgtgataaa 240
gatgcgagat gggaaaaact tgcgttgtgt ccataacaat tctcaaggga gaaatattcc 300
agagagtgca ccctaacctg taattgtttt gaggattgaa gatggaagcg aaactttaac 360
ttccaatcat tgttttggag attccaagtg tacttctgat ggctgctatt cgtaatgtcc 420
acatttcacg accaaccata tatcaagt 448

<210> 49976
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B12

<400> 49976

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cagtctatcg aggcaccgaa aacgaacaac tgggacggcg tcttgggaaa ctgagatcgg 120
gcctatgggt gcaacgagtt gaatcatata gaagaagtgc aagggtatg acctatggga 180
gtttgcttgc cttttgattc atcaaaaata agattgcggc cagataccgc ctttggtggc 240

aacttagggg aagctgtgaa gaagaaactg ctgggcctct cttgcttttc gcagctttgc 300
 cttgatgtac ctgcgagggc catggcccat gacagtggta ggtttttctt taatcgcaac 360
 tgtaagggtt ggtgaagaac ggtttcacag tgcactgata tatatgtagc tgcttgc 417

<210> 49977

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B7

<400> 49977

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 ggttttttga ctgacaataa acccagcgat ccttcatgcg attagaaaga ccagggccaa 180
 gactctaggt tttgatgggc gtcagagcaa ttacgtgag atggaccatg tgaggcagga 240
 actggtccat gcgaatcaaa tctttgctca gaatccatcg tggccagtca ttgcggtcac 300
 tggaaaagct atcgaggtaa caactgctgt catcttgggg a 341

<210> 49978

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-B9

<400> 49978

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 gaaggagtgc agctacagca agatcctcaa agatctcaag aaagagttct gctgcaatgg 180
 tacagtggtc caggaccag aacttgaca ggtcattcag ctccaggggtg atcagaggaa 240
 gaacgtctcg aatttcctcg tccaggccgg cattgtgaag aaggagcaca tcaagattca 300
 tggtttctga gcaaccgct tgtccatagc aaaccaaccc tgcattcatg gccagcttat 360
 tatattttaa tatctgaggt gtatcatatc tatctggctt tg 402

<210> 49979
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C10

 <400> 49979

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 aaccgattcg gaggtagatg cagcgcagcg tagactctgg atctgttcca agcgggtggag 120
 gaataaataa ttcggagcga gaggcggggg cttttctgca aattttgtaa aatggagttt 180
 tacgtatccc tctttcgtca attctcgcgc gaatatttta gcagtagcag tagtctttag 240
 gaacccagtc gggatcagta cctgggttgcg tttggactcg aatgc 285

<210> 49980
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-C5

 <400> 49980

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 gatgagctca gtgtgatcac actaagatgg aatgacaaga gaactagtca tctctccgtt 120
 ggaagtatgt atatttggcc agagggcggt ctaagtcac gaatagttga ctcttgaggg 180
 tatatacgct tacatacctg ctatcgcttc aactatgctt atagccacca tggctgcagc 240
 aacgacgac actgacgcta ccagtatccg tc 272

<210> 49981
 <211> 150
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-040-Q1-K1-D3

 <400> 49981

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 gagggccgcc ctgagggggg attttttagga ccatgaaata ccatgtgtat ataaggatta 120
 ctacaaagag tacaaatctt aatattttta 150

<210> 49982
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D5

<400> 49982

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acatccaaaa caacaccggg tactcaatac caaacatagt acctatgac agtagcccca 180
ctgggagttg cagagatggt gaagatgtaa gtgtgaacca agaagggtgt ggtattcagg 240
ttgatataata attgaaccaa tattttgaca gttttgcgca taactttggt caaacatac 299

<210> 49983
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-D7

<400> 49983

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agttatcttt ctctgcagct gagttattcg tgaacgggtga aatcgttcag cggtcgccag 120
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accggacccg ctatgtgaag cggagggaga accaatctta ccagagatga tgtctccgtt 240
tctggagatg gaaaatgccca gggtttccac aggtgtgccca tactggagat gcaggagcaa 300
ccccactac ccacatgaga atgacatccg ttgtgtttgc tgcgctttct aagcttgaca 360
agttgacatt gcttatgcgt ttgggcttgt acctctagtt gata 404

<210> 49984
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E10

<400> 49984

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 gcctgccctg gctgggactg ccgataaaga tggcagcagg agtcaaggcg cagtggccag 180
 tggggcagta acggtaaagt cgtgcggtcg ggactgcgcc attaaagggt ggtcctgcac 240
 gctcgctctg cagaattgat taaccgggcy tgctgtaaca gtatgggctt atccgagtat 300
 agtgactact ggtagtgaca gtggtgtgtg aaaaactgat aactctggtg tttctacttg 360
 cttgac 366

<210> 49985
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-E12

<400> 49985

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 tcaggacgac tcaattacac ccgatactgg tccgtctagg atggcatgat gctggtacgt 180
 atgacaagaa tattgaggag tggccacaac gaggtggagc taatggaagt ttaagatttg 240
 atgttgagtt gaaacatgga gccaatgctg gtctgataaa tgctctaaag cttatccaac 300
 caatcaagga caagtaccct agtatcactt atgcagatct atttcagttg gcaagtgcta 360
 cagca 365

<210> 49986
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-F9

<400> 49986

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gcggtggagg gtacacctgc aggtcccggtg ccgtccgcgc catgggctcc gcgccgtcgt 240
 cgtcccaatc cccgtcgctg cacacgcctt caggacaaac ccaagggaaa gcagattata 300
 aatcactgag tgaagaggag tggaagaagc gcctgactga agagcagtat tatgttactc 360
 ggcagaaggg cactgaaaga gcattcactg gggaatactg gaatactaaa ac 412

<210> 49987
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G10

<400> 49987

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 ggttggctga tcaactaatgg tgctggctctt gcatcttacc ccattgatac cgtccgcaga 180
 aggatgatga tgacatctgg tgaggctgtc aagtacaaga gtccttggga tgcgttccag 240
 cagattctta agaaggaagg gcccaagtcc ctgttcaagg ttgcttgtgc taacattctt 300
 c 301

<210> 49988
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G11

<400> 49988

cgggtccgtga ttccccgggtc tgcccacgcg tccgcccacg cgtccgtgca gactacgttc 60
 ttggcggttg atagtttccc gctggcgatt gttcgcctgt cagttcatgt acgtatgtat 120
 gtgtgtatgc tactctgcgg tggctaagtc tttttctgat gcctctgtcg ttgtgtgttc 180
 atcaccgtcg tgtgcgattg ttctttgggt tgtctttgcc tcaataaaac tgcttcattc 240
 tccagtattc tatagatgag tgctatgtac tctgtacaac atagaacaga gtac 294

<210> 49989
 <211> 298

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G12

<400> 49989

attcccggt ctgccactc ttaccccac tcgtgcgctc acactacgta catcccttta 60
 gcctgcgaca cccttcctat ctacctccga ccacttcaaa cacgcaagta acaatccaca 120
 ttaacgtcta caccactaat gctcctcaac aacccctgct acttgaccga caatcatcac 180
 tccagcaaga tctagacttc tgccgctacc ccatacgagc tacagctcca ccttgagct 240
 gcctacacct caatccactc tacctactac ttccaacctt acttctccat ttccaccc 298

<210> 49990
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-G5

<400> 49990

gagatcggcg cgctgtccag gcgtcctcgg tgttcatccc gcatggcccc ggagcgggcg 60
 cgacatcgcc acgcagatcc ggacggcctc ctgcaggatc ctctgtcgcc aaacactaag 120
 ctgcctgcct gctgtgccgc tgctgtgct gaagaacacc atcccactat tatatatata 180
 atataatgat gatcttggtta ccagagtgat gcttgtctat attgttcac actcatcgct 240
 accatctgct aggatggcta tctttatgct tggggattgg agaaaacctt atctaacctt 300
 ttagggaacc ggtaatatat atataatgca gcatgagttt gcagtaaaa 349

<210> 49991
 <211> 483
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-040-Q1-K1-G9

<400> 49991

gcacgtaccg gtccgaattc ccggtcggcc ggctcgtacg ctccgagcct cagttcgcat 60
 ccacgcgcgc cgctgcgcgc tcgcagctcg acgctcaccg ctcgctccatt tctgaacaga 120

ctgagaaggc tttcctcaag cagccaaagg ttttctcag ctcaaagaa tccggcaaag 180
gtaagaagcc tggcaagggc ggcaaccgat tctggaagag cattggcctt ggcttcaaga 240
ctcccaggga agcaattgaa gggacctaca ttgacaagaa atgcccattc actggaactg 300
tttctatcag aggcagaatt attgctggga catgccacag tgctaagatg aacagaacta 360
tcattgttcg caggaactac cttcactntg taaagaaata ccagaggtat gagaagaggc 420
actccaacat tcctgctcac atcttcccat gcttccgtgt gaaggaaggt gaccatgtca 480
tca 483

<210> 49992
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H10

<400> 49992

tccggtcttg aattcccggg tcggccgcgc ttacgccac gcgtccggga aagaaagaac 60
aggggcaggc gaagcgactg tcgcgaggca aggccatggt ccgccatgac gctctccctc 120
tccacctctt tcctctccat ccccgccgcc gcgaggacca ccgcccgcac cctacgctcc 180
gtcgtccctt cccaggggat gcgctgctcg atgcgcaaga aggggttgca cccggagatc 240
tacgaggacg cgaaggtgta ctgcaacggc gagctggtgc tggtgacggg gggcacaaag 300
ccggagtaca cggtaggacgt gtggtccgga aaccacccct actatgtctg cgacaccttg 360
gcgctcgttg tcatggacag ccagatcgag 390

<210> 49993
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H11

<400> 49993

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ttcgtccaaa taatcttctt cctgtcgtta tgctcccaga attcttatca atcgttcgtt 120
ccatcggtca tcgttcgac atagttccta tccatccttc atcgttcatt cataccaact 180

attcaccatc actatattacc cttactatatt accgctacta tttaccgcta ctttttacct 240
 atactttcta ccggttacttt ttaccggttac tattttaccgt tactatattac cgttactttt 300
 tacctttact ttttaccggt actatattacc gttacttttt accggttactt tttactgtta 360
 ctattttaccg ttactcttta ccggttacttt ttaccgtatt ttttaccggt actatattacc 420
 tttacttttt acctttcctt tttatctttt ctatttttacc tataacttttt aactctactt 480
 ttta 484

<210> 49994

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H12

<400> 49994

accggtcttg aattcccggg tctgccgacg cgtacgccca cgcgtccgcg ctctgccaaag 60
 gttecgcatgg ctgtattcaa tcagcatcat gttgatgggg ttgatttgac ggtgaatccc 120
 gttttgtaca tgatgaagtg ctatccgggt gtgccggagc agacgttgag ggctcatctg 180
 ggttcgtttg gtgtttcggg aagccttgac ctccaatcta tgtacaacttt atcaggtggg 240
 cagaagagta gggttgcatt cgcgaaaata accttgaaga tgccgcacat cattctcctt 300
 gacgagcctt ctaaccatct cgatctggac gctgctgagg cgtcataca ggggtctactc 360
 atttttcatg aaggtgtgct gatgggtgagt cacgatgagc atcttatgac tggaagcgtg 420
 gacgagctta gcgttggtgt 440

<210> 49995

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-040-Q1-K1-H2

<400> 49995

cgggaattccc ggctcgacgc acgcgtccgc cggatcaccg ggttacacct gctgattcac 60
 gttcaggagc tatcacagct agcggcgact ctttttcaga tgatatcatc ttttacacca 120
 tcttacaagt actactgtag ctccagcatg atcctgctgc agctcatgca actgcatgag 180

ccctaacctg gagaccgtcg tcgtcagcaa catcaaaacc actgtcctcg ccgcgccgac 240
 caccaaggcc agctccctct gttt 264

<210> 49996
 <211> 186
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-A9
 <400> 49996

gaattcccgg gtcgtccac tcgtcctccc actcgtcctg gggatgatgg atgtgttgaa 60
 cggatgcaag aatctgagga agcttgagat tattgacagt ccatttggtg attttgcact 120
 cttgggaaat gttgccaaat atgacacaat gcgatccctt tggatgtcat catgcaatgt 180
 cacatt 186

<210> 49997
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-B7
 <400> 49997

gttcgtcgac aagtacggcg cgaacgtcga cggatacagc ccaatctaca acgaggatga 60
 ctggtctccc accggcgacg tctacgtcgg tggaaccact gggcttctga tctgggccgt 120
 caccctcgct gggatectcg gcggcggcgc cctcctcgte tacaacacca gcgccctctc 180
 cggctaagga tatccaatgc atgcgcttct tgcgattcgt catgtaaaat caggggtgtct 240
 gtctataatc tagcctccat ggatgtctcaa ccttcgtcat gtaacaataa tcagtgtctac 300
 tcttcattac ataattttga tgctatatat atataaaa 338

<210> 49998
 <211> 488
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-B8
 <400> 49998

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 caccaataat ggccggcggtg aactccagcg tcgtgggggt caagcccgcc gcggcagtgc 120
 cgcaggccgc cgccgtctca tcgccggcga agcgggtgca gctggccgcg cccgagggcc 180
 gtcgcgcgga tctgctcggc ctggcgcccg tcttcgtcgt caccggccacc accgggtcgg 240
 ccaaggccac gatcttcgat gactacctcg agaagagcaa ggccaacaag gagctgaacg 300
 acaagaagag gctggccacc agtggagcca actttgcgcg cgcctacacc gtggagttcg 360
 gcagctgcca gttcccctac aacttcactg ggtgccagga cctctccaag cgaagaaagt 420
 ccccttcacg agcgactacc tcgagaatga gtgcaagggg aaagagaagt tcaagtgcgg 480
 ttccaacg 488

<210> 49999
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C11

<400> 49999

ctcggaattcc egggtcgtcc cactcgtcct cagcctcacc gaactctacc tgcctttctc 60
 tcttccctgg ctgcatctgc aggatctcgg attatacttc caggactggg taaccatattg 120
 aaccagcac agaccatgca cgtctacatc atctatctga cacactcatg tacgacgtac 180
 ctctcacatt tgattgtcat actaacga 208

<210> 50000
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C8

<400> 50000

tgcgtctcgt gcgcgatcca cgctcacatc gtccgcgtcc gatcccgatga gaagcgcagg 60
 gaccgcaagc cgccggagcg cttcaggcgc agggaggata ggctgctgg tggacaagga 120
 ggccccgcc ctggctcctgg tgctgctgct acagctccat ctccagcacc ggttgctgct 180
 cgcccatagg ctttagcttt tcgaccgtgt taagtcttct gccactcag tttcggagtt 240

gtccccctgtg cgtgtgtgaa gctgctatat tagagttact ttttgtctaa agtctgaaca 300
 ttttcgaaga atttgaatat ctgaacattt gaatgtttgt gctgagtttt tcaaagaatt 360
 tgaatatctg aacaattgaa tatttcaaaa 390

<210> 50001
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-C9

<400> 50001

ccggtctcgg aattcccggg tcgaccact cgtcctccca ctcgctccgc cacgcgttcg 60
 tacagctcta gtggaggagg aggaggggac tattggaact gtacttggtg aaaggtgatg 120
 gatgccaggg agtacttgta caggaagagg aagagagact cgtgtgattg tagtagaata 180
 gaatggaatg gaacgtaatg gattgcatgt gcaactgtaa gcagctgcaa actgcaatac 240
 ttgcagtgga gtgatggaca actcaattta taagcaacct 280

<210> 50002
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D1

<400> 50002

aattcccggg tcgaccgacg cgtccgcca cgcgtccggt ccatggaagt gatagtcctg 60
 ataatggcaa gcgtgaaatt gaacggtggt tcagagaagg cgagctgtgc caaaatggga 120
 atcagttcaa gcaccgtggc ttatagaata actcttgcta atcatttcca gagttgtatt 180
 caatgtttta ttttgtgttc gtcttgattc aaggagccat gcaagagtgt atgagtttag 240
 ttcggctaag taattagctc atgagggctt gaattatcgg ttctttttga ggattgatga 300
 tttgtgcaac tgaaaccttt gatcaattgc tcaatgtgag aagctaattt cttgtcaaaa 360
 aaaatta 367

<210> 50003
 <211> 254
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D10

<400> 50003

ttcccgggtc gacccactcg tccgcccacg cgtccggacg accactccct ccataacgcc 60

ttcagcacct actgcgaggt cctgtagtcc gagatcattc tcgagcggta gacgcacact 120

tcccgcggct tcggcttcga cacctttctcc actgtggacg cgatgctgaa ctccatcgag 180

ggcatgaact gcaaggagct gaacagccgc aacatcacgc tcaactaggc ccagtcccgc 240

agcggccgtg gagg 254

<210> 50004

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D3

<400> 50004

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tgtgccgttc ctgatgaagg caggcggggc gctgcacaca cgacgcgcgg agatccgggt 120

gcagttccgg cgcgtgccgg gaaacctgta cgggcggaac atcggcgcgg acctggacaa 180

ggcgaccaac gagctggtgc tccgggtgca gcccgacgag gccatctacc tcaagggtcaa 240

caacaaggty cccgggctgg gcatgcgcct cgaccgcagc aaccttaacc tgctctactc 300

cgagcgctac cgtcgcgaga tccccgacgc gtacgagcgc cttctgctgg acgccatgga 360

gggcgagcgc cgctctttca ttcggagcga cgagctttac cccgcctggg 410

<210> 50005

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D6

<400> 50005

ttttggtagg gaatatatcg agtacttatt tgtagtgagt tgaacagcgc aacacatgtc 60

catagtccat acataattgg cagataacaa ggaattacat gatagatcca aaccttcattg 120

gtcttctgga agccatgagg atcttttttac acagcaacaa acccacaat caccaaagca 180
 gtcttttcgca gcaccaagtc tataatggcg tacaatcca cagtagtagg cgagtccatg 240
 atgcgtagacc ccacgcgtcc gcaggaagct tgggaagtaa tgctggagca gttcaaggct 300
 gaggcctgc ggatgcaggc cctgtcaatg caggcatatg atgtc 345

<210> 50006

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-D9

<400> 50006

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 ttgctttgcc catgggaaat atgggaatgg caaaccattc cctgtgaacc taagtcttgc 120
 cgatggtctt aacggctggc ttccatgtgc caggacctcg tagaacagaa ttgaagcctc 180
 accagagtgt tcacaaaagg cttcatcaat acctatttcg ctctgtcatg gaaaagctga 240
 tgatgtggtt gcctacaagc acggcgagag atctgctggt gccttgaaag caaatggctt 300
 ttccaatgtg ctcttcaagt catacaatag tcttgggcac tacactgttc cagaagagat 360
 ggatgaagtt tgcaaatgga tcacagcaaa ttaggcgctc ggcacttact catcttgatt 420
 ggaaaat 427

<210> 50007

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E1

<400> 50007

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 actccaagga tgaccctgcc aaggaggcgt gctagcttca cgtcccaggg catcatcatg 120
 aaccaccctg ggcagattgg caacggctat gcccagtgctc tggactgcca cacctcgcac 180
 attgctgtca agtttgcgga gctcattacc aagattgata ggcggtctgg caaagagctt 240
 gagaaggagc ccaaattcct caagaatggt gatgctggta tggatgaagat tgttcccact 300

aagcccatgg tcgtggagac cttttctgaa tatcctcctt ttggtcgctt ttctgtcctt 360
 tacattatgc aaactgttgc tgtcggagtc atcaat 396

<210> 50008
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E2

<400> 50008

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 gcaagaccat cactcttgac gtggaggctt cagataccag ggacaatgtc aaggccaaga 120
 tccaggacaa ggagggcatc ccgccggacc agcaacgtct tatctttgcc ggcaagcagc 180
 tggatgatgg acgcaccctt gcggattaca acattcataa ggagagcacc ctacacctgg 240
 tgctgcgcct caagggagga atgcagatct tcgcgaagac attgactggc aagaccatta 300
 ccttggaggt tgagagctcc gacaccattg ataatgtgaa tgccaagatc c 351

<210> 50009
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-E3

<400> 50009

cggcccgga ttcccgggtc gaccgacgcy tccgcgctca ccatgatggc gtccttcgcc 60
 gccgtggcgg tggccgcgcc ctgcgcgccg gggggcttcg gcgtgatcag gtcgggcaag 120
 gtcgaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgccgac 180
 ggacgccgcy ccgtcatgct cgcgggtgct gcggcgcccg tggcagccat cggcggcgcc 240
 ggcgccgcca tggcggggcc caagaacggg acccccagag cgaagaagaa gtacgcgggc 300
 atctgcgtca ccatgcccac cggcaaggct tgccacaact gagcacgccc gcgttgcatc 360
 tgcattggccg gggggtggta tataattaat gtacgtgcca cggagttggt ggccctattg 420
 ttggttcgag c 431

<210> 50010

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-E4

 <400> 50010

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 cccactgag atcaacggcg tgccgtcgga aatcctcgag ccgatcaaca cctggacgga 180
 caaggccgcg tacaaggaga atctcctgag gtcggcggg ctcttcaaga agaacttca 240
 ggtgttcgcc agctacaaga tcggggacga cagcagcctg actgacgaga tcctcggcgc 300
 aggccccaac ttctgaacta aagcaatgga tccggatgaa taaaacgatg gcgtgcgtgc 360
 gtgggtgcgt gtgaagatga ttacgacgac gacga 395

<210> 50011
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-F10

 <400> 50011

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 ctgggcgcaa ggtgcctgaa cgacgcagct gcctgcctca aacgacatca cagccaccac 180
 ccgaaatcgt ttcgaaactt tgaggtggat ctgcacacgt gctcaaactg gccatgtgtt 240
 tttttgtcag aacaagccgt tcatttgatt ggttattaaa agattttggg cagtctgttc 300
 ttagaaaaa 309

<210> 50012
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-G12

 <400> 50012

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 attcaagcaa accacaagag aatttcacaa cttttgcatg agtctctgat gttagtaca 180
 tctttgaacc ctaaaattgg ctatgacaat gctgcagctg ttgctaagaa agcccacaaa 240
 gaaggaacca cggtgaagga ggctgcatta gaccttggag tattaacgga gcaagaattc 300
 catgagcttg tcgttccaga gaaaatgatt ggtccttctg attgataacc ccatgttcac 360
 tatgtttctt tgaagcattc aggttgccac atccacgagt tctgggtggcc ctgtgtttcc 420
 aagttaatga ttctagcgca tccataaata aagcaaataa tttttcatat 470

<210> 50013
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-G2
 <400> 50013

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 cgtcgcatca ggtccgatcc cctcgagtgc gccggcggcg ccaccaacca gcaagctgcc 120
 agagttccag atcgggtcttg gaacaattgt tgtccagtct agtaatcttc tttcacctca 180
 ggaggcacia cttgatggca atgtagtcac agatttgcca agtgatccta tattgcacia 240
 catgagaact cgaaggggtc aagctgccag catgggcata tcagaatcaa gacaaaagca 300
 agtctacctt attttactga taaacaaagg cagagttgtg gccaaaggga agttagtgc 360
 tacagatagc caaagagata tattaggagc aaagcttgga ccataatatt gtgg 414

<210> 50014
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-045-Q1-K1-G8
 <400> 50014

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 gtgtcgggag ttgacctga cgagcaccac atcagaaagg agtttgaaag gtttaagccta 120

atgcatgaga agttaaataca atttgagaac tgggacaaag caccacttcg cccttctact 180
 aactaaata cacaagcagc agcaagggttc attggacact cactttccca tctgacatct 240
 gatcagaaga ggagcatgca tgaaataagt agaggagaaa ggcggagttg gtctgggcag 300
 aagagaaagc ctgaaccttc aatagaaaag aagtctgttc gtgctgctgc agaagagttc 360
 cttgcaaagg cttctcaaga acttattgga catagtgatt gcaagggtcaa gggttctgtt 420
 atactaattt ctgatgaaga tgaagactag atc 453

<210> 50015

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-H10

<400> 50015

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 gaggatctcc acgtgagata ggaaggcgtg tgcagatgtc gccttatggg attgagttga 120
 ggaaacttgg aagttccatt acttgtctgt agtctatact ttatctagat gcgaagaagc 180
 ttgagataca cattgactac aatgtctttt gatgaataat accagacagc accgaaccga 240
 actcgtccta cacacggtag ctttgccatc taggtagttc tgctcgtgggtg gagatggctg 300
 tgctgcctat aagtctaagg ctaatggcat ggatgacatt tatacaagct ct 352

<210> 50016

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-045-Q1-K1-H12

<400> 50016

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 caatgacctt gtcgtcaagt tctcgaaggc tctttccaag actgcggctc caatgaactt 120
 gctcacgcct gaaaaccctg atccattcat ttctgttcac cagctatgt acgtatgtgt 180
 agcatatggg ttacatctac ctgttataac cccgagagct ggagaaacta gcta 234

<210> 50017

<211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H5

 <400> 50017

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 ggctcccacc aggacgttgc cgagtgcacg gccatgatct gcaggttcga cctcgacggc 120
 gacggcgtgc tcagcttcga ggaattcagg gtcatgatgg atgcatagct aacggattgt 180
 gttgtgtgaa tacgtgtgat tatttacttg ctgcttgttt ttgcctgtcg tccgaattca 240
 aacgtcaatt aattactact agtttgtttc tgtgtcaaaa 280

<210> 50018
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-045-Q1-K1-H6

 <400> 50018

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 tgtttcgaac attacagaca aacttaaagg atcaccacga caggcaactt gatcaactaa 120
 acgatgcata tatectactt aacagtattg cagtacata gatgcagagg atagcataag 180
 aggtcagcaa ggtgccatca gtgaggaaac tactggggaa ttaaacacaa agccatagct 240
 agatctac 248

<210> 50019
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-A8

 <400> 50019

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 tgtccagtgc gcgcgtcagg cgtgcttagc tagccgccat ggctccctc gccgccgtct 120
 ccgtgaagcc cgtggccatc aagggtctcg ccggcagctc catctccgga aggaagctcg 180

ccgtcgccag gccgtcggcc cgctccatcc gcaggccccg cgcagccgcc gtggtggcca 240
 agtacggcga caagagcgtc tactttgacc tcgacgacat cggcaacacc accggacagt 300
 gggacctcta cggctctgac gcgccctcgc cctacaaccc gctacagagc aagttcttcg 360
 agacgttcgc ggctccgttc accaagagag gtctgctgct caagttcctg ctgctgggcg 420
 gcggctcact tctggcctac gtcagcgct cggcgtcacc ggaccttctg ccgata 476

<210> 50020
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-A9

<400> 50020

attccccgggt cgactccact cgtccgcca ctcgtccggg ggatgatgga tgtgatgaac 60
 ggatgcaaga atctgaggaa gctggagatt atagacagtc catttggtga ttttgacttc 120
 ttgggaaatg ttgccaaata tgacacaatg cgatccccctt ggatgtcatc atgcaatgtc 180
 aaattaaagg g 191

<210> 50021
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B11

<400> 50021

attcctgggt cgaccactc gttcgctgat gtctaggaca ataagcagaa ggctttatgc 60
 attgagaatt acagaaagaa atatggggat ttgctgtaca ctttatctga tattgatgtt 120
 taaaaggaaa aagaatgtgg gattttcatt gaaatgaaca acaaa 165

<210> 50022
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-B12

<400> 50022

gaattcccggt gtcgaaccac tcgtcctcgc agtagtcccc tcacgtttctc ttactttctct 60
 agcgccgtct cccaccagac tagatggccc cgtagaaggt caaggcccct ctttcgtagt 120
 ctaatccggc caagtccggt ggtggcaagc taaagaagaa gaagtggagc aagggaaagc 180
 taaaggagaa tgtaaacaac gcggtgctgt tcgaccaggc tacctactac aagctgctct 240
 cggaggtgcc caagtacaat catatgacct cttctatcct cttctagcgt ctgatgatca 300
 acggctccct tgctcggagg gccatcaagg tcttgatggc gcgtggcctc attctgatgg 360
 tctcgggtcca ctcaagccat cagatctaca 390

<210> 50023
 <211> 475
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-B8
 <400> 50023

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 ttttattcct gaagcatggg ctggtgctgg gcggccatta catcaccacg cctgaacgtg 120
 ttccaggcct acaagctgaa gcggataagg gaccccaact gcaaggcgac gcccagtcg 180
 ccgctgtcca aggagtctgc cgacgagaac aagcccgtca gactgggtcaa gctgaaccgc 240
 gcgagcgagt accctgacgg cctggaagac acgctcatcc tcaccatgaa aggcacgcgc 300
 tgctgcatgc agaactctgg ctaggcagct tatcttcact cacctgcaga gtgcaccgca 360
 ataatcagct ttccgatggg ggcgttttgt cagttttgga tggaaatgcc gaactggcaa 420
 cgtctgtttt ccctatgcat atggaatttc ctgcctcttt atattcactc tttgt 475

<210> 50024
 <211> 476
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-046-Q1-K1-C12
 <400> 50024

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 tggccagcgg cacgtcaaag aagggtgca agaggaagac acacaagggt ctttcctact 120

agctcgctcct tagttctttt gagtcctttg gttgttcgat gcctttctact gattcatgtc 180
tcgttcgggtt atgtgtgtca tctactcgtca tggcgtcggg gaagcgggtt cgagtgcacg 240
ggaaggacaa gatcgtgcgg cgggtgcgccg ggaagcaaca cttgctcgcc aagaagaaca 300
ccaagggcaa gaagagactc tccaagatgg tctatcggtg gaaatgaagg gacatgtcgt 360
ttttctgtcc aacgagaata gcacttgtct tctgctaata ttgccgctgg acatacgaac 420
tctgtgcttt tgtgtgcaag caatactcgc taatagtctg ttccgatttc taatga 476

<210> 50025
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C3

<400> 50025

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cctgacactc ggaagacaag taagtactct tctagagcgg ggcagccgtg aaggaaaccc 120
agctgccccg gattcagatt acagaccga tagcaagata ctatgggatg aagcgtgggc 180
aggtcgtgaa gatcacaaga gccagtgaga ctgctggaga tacatcacct accgctacgt 240
tgtctgagct ttgtacatt ctcatggctt aagcttccgc accaagcgaa aatgacctct 300
actt 304

<210> 50026
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C7

<400> 50026

ggtccggaat tcccgggtcg accgccccac gcgtccgcc acgcgtccgc ccacgcgtcc 60
gctgagtatc agctgattga tatttctgag gatggatggg tgagccttct tacttcagat 120
ggcaacacta aggatgatct tagactccca actgatgaga ctcttgtggc ccagattaag 180
gaagggttcg aaagcggtaa ggatcttgtt gtgactgtcc agtctgcgat gggggaggag 240
cagatctgca cgttgaagga tgttggcccc aagtaacttc cttggctttg gagacggaac 300

cctactgtat ctcaacttaa atcggaaaag aagtgtatca ccaaattggat agctaccgat 360
acattcacct ggcttgaact ggcttttgct at 392

<210> 50027
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C8

<400> 50027

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actccgcaca ggagcctcca ccggagttag tttcctaaca gtggctgacc gtccatcctg 120
acatggctta acacgacgca catgcgatgc ccgagccaca tgacgcacct gcacggctac 180
aagagtccgc gctggacgga ctccgcatcc atacaccagc cgtgccgtat cagatgcgac 240
gagatgggta agtgatctat cg 262

<210> 50028
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-C9

<400> 50028

gaattcccgg gtgcacccac tcgtccgcc acgcgtccgg cgccgccaga cactccgtag 60
tctgtacccc aagcaccggc gcgtcggcgg ctggtgacca tggcagtcgg gaagaacaag 120
aggatctcca agggaaagaa ggggtgtaag aaaaagaccg tcgatccctt ctctaagaag 180
gactgggtatg acatcaaggc cccatcggtc ttcagtgtgc tcaacattgg gaagactctc 240
gtgtccagga cacagggtac caggattgcc tatgatgggc tgaagcacat agtc 294

<210> 50029
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D1

<400> 50029

tcggtctcgg attcccgggt cgaacgcgtc cgccaggcgt tcgtccacgc gtccgtccac 60
 ttgttttaac tgaagggttt tcatgcaccg gggacgggtt acccaagatc ttgatgggtcg 120
 gcaacagata ccatgaccct ttgottaaag cgatggaatt cctgggtgtcc agattattga 180
 aaccttgaca aggccttaag gatctagttg gaagcccaca tta 223

<210> 50030
 <211> 458
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-046-Q1-K1-D11

<400> 50030

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 ttgttaggac ttatacaaga tgtgtgcatt ggggaaagtg gaccgcactt ggactcgaag 120
 catgcgtatg ttattgttag gcatgtgaag tttgcaaca agaaagggtgg gaagaaagct 180
 agccaggcca tggaagatgc aggaaaaggt accagcagtg ctgtcccata gtcacccgtt 240
 gatggcagca ataccgaaga catggcagtt ggacatggtc tcgggaaacc tgatgatcgt 300
 accatctcag atcgtgttaa ggaaacagcc acccgtctct tcagagactc cncgtcccaa 360
 aaagaggggc acgatagaga atttaaaagg gaggttcaatt ggccaaaatc caaccagg 420
 gctgggtggaa acagaaataa tcctgccaga ggggacca 458

<210> 50031
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D3

<400> 50031

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 gtgcgttgaa agatctaagc tgtgaaatta agtacgcagc tgatcacttg gagcaagcag 120
 actcacttta ccattgtccc agaataataa ttagtcactt caactttctg cgtctgtgga 180
 gtaaggttgt acgagtgttg gggctgtgtc attatgggat ttgagctcac ttggtttctg 240
 tgtaaagtgc agctgctgcg gtttttttgg tcactggatg actgctgctg ttggctggtc 300

aggtttgata tcgagaaata tccattgcat tctgcgtttg aaaaaaaaaa aatttatt 358

<210> 50032

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-D8

<400> 50032

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tagcattaaa gactgcgctt gaaggagtat gacagtctgc tacctcgatc atgactcaag 180

aataaggcta actgcaagcc tgacttgtaa aagcccaggc tcgatacgcc gtcatgcgtt 240

gccaacgggc aaggttagga acgaaaatgc ttgatacagg atcactggac tccaacaact 300

agtcgctcct tttggaaaga cggacacagc atcgggtgctc aatgagacca tcgagtaca 359

<210> 50033

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E1

<400> 50033

cccacgcgtc cgggtggatgg gtatgtgtac agtgcagcgg aagagccgga aatcatgatt 60

acaggggaagt ggaacaagtc cctgagttgc caaccatgtg accaagaagg cgatcctctt 120

ccaggcacgg agctgaagga gatctggaga gttgctcctg cccacaggg cgacaagtat 180

cagtacacac acttcgcaca caaaataaac agcttcgaca cggcacctaa gaagctgttg 240

gcatctgatt cacggctgag gcctgataga tatgcctcgc agaagggtga catgtctaag 300

tccggggcag agaagagcag gctcgaggaa caacagagag ctgagaaacg aactcgagag 360

gccaaagggc agcaatttac tcctagatgg ttcaacctga cagatgtggg cttccctaca 420

<210> 50034

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E10

<400> 50034

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agaatgtggg ctacttgagg gcaactgggg atcgacaatt tgatgcagca cagcaagctt 120
accatgctgt gccaggagca gccatggcgg atttgagctt caaggagtct atacaggcat 180
atgcaatgga acaaggtttg ctatttatgc ctagagttgg caagttctat aatggcatgc 240
cagtgtatga gttcggcaca gttagtattt gcatagactc tgtgaagcga ctactctatg 300
cacaacttca agagggaatc gacagatgga gtcctgtaac tcttacacaa ttgatggaca 360
tgaaccgaat tggaagacca cactagtaga tcgctcctag cccttgactt gcatgatggg 420
t 421

<210> 50035

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E11

<400> 50035

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ggagaagctc aagacgatgt cttgtgagat tgaggtaggg tctcgggggtg ctgtggagag 120
agtgatgcat catgtgaggt ccttcacgc aatcctaaag catcatgctg cagatgcaag 180
gcagtgggtg acctagtttg gggcttgtgc tgcttccatg tcttacgttg tttcatcaca 240
atgtgaaggg aagcttatc 259

<210> 50036

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-046-Q1-K1-E4

<400> 50036

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gacgactcag atggccagcc gctgggtccg gcccgaggtg taccgctgt tcgcggaac 120
 gggcgtggcc gtcggcatct gcggtttca gctcttccg aacatcacg gcaaccgga 180
 agtcagggt aacaaggcag ggagggcagc tgggtgtgctt gagaacctg aggaggggag 240
 acgttacgcc atgcatggcc taagaagctt tgtgcacgac aagactcctg agatcatgcc 300
 tgcagttaac aagttcttca ctgaccctaa gtgaagcatg ttgattggca tactactact 360
 actactactt gctactgtgg attttacact ttgctggcaa ctcaatatgt tggggacatc 420
 catgacctct aaaagtactt tgagcgcttg gtgat 455

<210> 50037
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E5

<400> 50037

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 acgcgtccgc ccacgcgtcc gccacgcgt cgcgccacgc gtcgggacgg tcaagccctt 120
 cgtaacggc ggggcctctg ggatgctcgc gacctgcgtc atccagccta tcgacatggt 180
 caaggtgagg atccagttgg gtgagggctc tgctggtcag gtcacaagga acatgcttgc 240
 aaatgagggg gtcggttctt tctacaaggg tttgtccgcc ggattgctga ggcaagcgac 300
 gtacacgact gctcgtgttg gatcctttag ggttctaact aacgaagcag ttgaaaagaa 360
 tgaaaggaag ccattggctc tatttcagaa aggttttatt ggtctgactg ctggtgcaat 420
 tggtgcttga gttggtagta ctgctgatct ggcactcatt agaatgcaag 470

<210> 50038
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E6

<400> 50038

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 gcttgctgc aggtccttgg gcgtgctctc ggaggccatg gacctggaca cggaggctct 120

ggccagggcc tgcgtggaca tggaccagaa cgggtggtggt caacttgtag ctgaggtgcc 180
cagcatccgg acctcactct ggggctcaag cgccacactg accacggcac catcacgctg 240
ctgctgcatg acctcgctcg ctgactccag gccacgcgog actgtggacg gacctggatc 300
accgtgcagc ccgtggaggg cgccttcata gtcaacctca gcgaccacgg tcacttactg 360
agcaacg 367

<210> 50039
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-E9

<400> 50039

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cgcttgaggt ggacataacc tacggggctg aggaagacga gcccgacaag aagaagcccc 120
ggatgatgct catcgagcgg ggcaagacgc ggaggctcgt gaacacgcct gacgttctac 180
tcgggcttgg ctggttcggc ttcgaggtag tcagggcgga tccaaggacc cactctgacc 240
tcgaggagtt tgcccgccta gtcgactcgt gtgacgcgat gatgggcgct cacggtgccg 300
gtttgaccaa catggtgttc ctgaggtcgg gcgcagcgt ggtgcacgct gtgccttacg 360
gtgtctagtt catggctgac 380

<210> 50040
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F12

<400> 50040

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gcctttgatt gagaggtgga agtcaggagg agcgtgtgac tgtggcgat gggatgaagg 120
ttgcatgctg agtgtcctca ctgatgctgc cgaagaaaat gatgccgttc atgctaacca 180
ggcataggat ggcagccagc tatttgaact tactagctca aggtgcgac acgagaagat 240
aggcatgcct tcactatgac ttcatcata gagtgtcatt atacaatgag catgcatatc 300

atccattgca ttacttcagg cttgtgcaac tggcttagtg atactgcatg a 351

<210> 50041

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F3

<400> 50041

taaaaagaaa catataaaaa tcaaaatgat ttatttatca ctacgaaaaa agaaaacaat 60

tagtgagggc ttgatacatc atactggaag gagacaaaaa gtgaaaaaac actcacagt 120

caatgctaac tttggactga aacggatctt agacttaact aaactgggtgc atgaatcatg 180

atgtcatgag acctttgctt agctacactg accgctgtca tttctctagc tatacgcgta 240

ctcgaatttg gatacatgcg ttgctagagg attatgcgta tgtttgtcac taggtgtccc 300

tctcattcat actttgcaac tttacgtcac tgggatccat ctatctacta gataattgag 360

ctctctgata gactaaaggt gcgaatgac gtactagagc taatatatag ttgactcact 420

gaaattagct agcttaccaa tatctagcta actatt 456

<210> 50042

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F7

<400> 50042

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cacttactcg cggagctgat cccatgctta ctgatgggcc tgaacacagt catgcagatc 120

ttactgcacc gtttcgcatt cttgaactcc aaacatacga acatggcgaa gcaagtgcc 180

aagcacaact ggaagactca cttacacgcc agcaactagc gcgccaagga gttctagggc 240

ctgctaaagt acaacgaccc cgagggcttc aacctcgctg acgtctctga ctggggctcg 300

ctcggccaca tcgtcgcta ctacatgctc gccacctgca gcaacggata cgacccaac 360

ttcttctgag cggccggctg cgggcatgtt cttgagcctg cctgtattct actccgtgtg 420

tgttgagcca tatatctgat gctcaaagat tggttaattt gaacaagtgg tgcaactgca 480

cgtgt

485

<210> 50043
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-F8

<400> 50043

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tccttatgtt aacgagacca gtggaggtca cgggtgttcac cgataacgaa ggcatgacat 120
atcacacagc tcatttctgg acagccttt 149

<210> 50044
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G11

<400> 50044

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cgcatgtgaa tcgcactgtt agttaatgct tgggtgctgtc agtcttggtg ggagtctgac 120
tcgtaaagct cattatcacc ggaagtgttt gtcggaggag tgctggcact aactatttat 180
cttcagttgg ttgtcgtgtt gccaaaa 207

<210> 50045
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G7

<400> 50045

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cggctgggag accaccgaga ccagggcggg cattatcgca cttgctgagg atacactgac 120
gaaccttggg tgtgtacttg cgccagtgtc agctctgaca tgtactcctc attcactgac 180
caagtcattg tccaacttgg actgtggaag gagtagagct ctgacaagta tgagacgaac 240

gtgtatgtac tcccaatgca cattgatgag aatgacgctg ctcttcaatt gggcaagctt 300
 gatgccattc tgaccaacct caccaagtct catgacgact acatcagcgt gcctatcgag 360
 ggtacctaca agctctgccc actaccgaga ctaggcaca 399

<210> 50046
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-G8

<400> 50046

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 tgggctgggtg ctgcgcaacc cttacatcac cacccttaac gtcttacagg cctacactct 180
 aaaacggata agggacctca actttaatgt gacacttcag ccgcctttgt tcacggactt 240
 acccgactag atcgagcgca tctgactgct caagctgcac ccagcgatgc ttgtcacgat 300
 cgcactgtaa gacactctca tactcaccat gacaggtatt gtctttctgca tgcagaacac 360
 ttcataggat gctttcttct 379

<210> 50047
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-046-Q1-K1-H10

<400> 50047

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 aggcgccgta ccaggacggc gtctccaagg agctggcgca cgctgaaga ccctgatcca 120
 tccattttctg tccaccacgc tatgtacgta tgtgtagcag atgggtttaca tctacgtgtt 180
 agagcccgga gagctggaga agctagctag cgtgcttaca gaataacagc agccaagcaa 240
 agccaagggg gtgtatataa taggcatgcc ttgggttggtg tcagctgcga ctgtatgtat 300
 agtttaaacc aagatgaaat ggtactgatg gtgatattcc gtgttttacg ataaaa 356

<210> 50048

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H3

 <400> 50048

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 agcattcagc tacacactta cctcaaggca cctgtctcct acactcatca caatcccaac 180
 tcttacgcac caccattcca cagccaccac taacctgcta acttttccgc gacatctaac 240
 aacaatcatg catctgtccg gctcgaacac gaacacgaac ttgaaacctg acagcaccac 300
 ttaaccctac agaacagcta tcacctccgt catctacaa 339

<210> 50049
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H4

 <400> 50049

 gcttcggcaa gaccgagaag gagatgaatg agctcaagct caaggagatc aagaacggcg 60
 ggcgcgccat gctcgccatc ctcggttact tcatccaggg gctcgtcacc ggcgtcggcc 120
 cgttccagaa cctgctcgac cacctcgccg acccgtcaa caacaacgtg ctcaccagcc 180
 tcaagttcca ctagaacgtg gtgcatcagc atacctgctg ctgccgccgc cgccgccagt 240
 tgtttgctgt ggaaagctag atgcatgcgt gttgtaaagg aacctgaagc gttgcatcgg 300
 tcatgattca tgcattggcca gctgctgcc tgtaacaaca aactagtatt gatcttattg 360
 agaccggaaa ctgtattgca catggtaaaa 390

<210> 50050
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-046-Q1-K1-H6

 <400> 50050

ttccccgggtc gaccgacgca tgcgtccacg cgtacgcagg ggcctgatca gagtgggtgc 60
 tgggttttgc ctttatgaga agcgtgtggc tgatcttctg aaggtgggca aggacaagcg 120
 tgccctgaag cttgctaaga gaaagcttgg aactcacaag agggcaaaga agaagagaga 180
 ggagatggca ggcgtttctca ggaagatgag gtccgctggt acgcacactt acaagaacaa 240
 atagagagca tttcaagtcc atggagcctg ccagagatta tgttccagtg tctgatttta 300
 catacatgta gaacctataa tacatgtcaa agtcttatgt atccaaccag ctcatgggat 360
 ttt 363

<210> 50051
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-B2

<400> 50051

ccgggtccgga ataccggcg ggaccacgc gtgcgggacc tactagcgac aaaccgctct 60
 tctaaacaaa aacctctcag ctaatatggc ggaatcttat acatcgatca caggcctctc 120
 ccatggcgtc ctgccaagaa cgctcacct cagcagaacc agcacagccg tgaccagaag 180
 aacgccgccc gcatatggca acgccagtc cactccggc cgacgaaccg ctatcggcct 240
 cttgctcact gtcataacaa gctggaccat gtcttagccc tcacgcgccg aaaccgtcta 300
 gaccatcaag attgaaacac tcgtcttcaa cgttcgcatg acc 343

<210> 50052
 <211> 305
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-C1

<400> 50052

gtcaaaagcg cggccatggt tgtagctgta gcgtctacat gtcgtcgtcg tcgtggtcgg 60
 cgtcgatgcg tggcctcgat gganaagctg gcgttgctct ggtgatatga tgagagcaga 120
 gcagctcccc tgtgtgaaga caataagagg gaggagccta ctcatcagcc tacttccatc 180
 ttgcttatta ggctgctcaa actgagttgt cgttagctct tttttttatt tctccttcct 240

ttaaagtttg atctcgatcc tctgtaaatt taagctgcag aagaaccaa tacatgtctc 300
gaaaa 305

<210> 50053
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-C5

<400> 50053

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cttaaccgga agccagtcgt ctggctaggg tggggccgcc gccgccatgc ctggccgcat 120
ctcaggaagg tctgccccac gccagctcc cctgtctgct tcaactgagga acccgccaca 180
tccagcacgc caggtcctc ctccagctcc tgttcgagat ggtgggtggc ccatgtttgg 240
aggaattggg tccaccattg ctcaaggtat ggcgtttggc acgggtagtg ccatggcaca 300
cagggctggt gactctgtat taggtccccg gaccatccag catgagactc ttgccacaga 360
agctcctgct gctgccccg ctgctccagc gatgaatgct gatgctngca gcttccattc 420
taaggctttc caagattgtc tcaacaacta tg 452

<210> 50054
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-C6

<400> 50054

cgnccggaa ttcccggtc gacccaagcc ttcccccaag ccttcggtc gttgcagtgg 60
ccttaacgaa caagagccta gtctctcggc gcgcgacgct acgggtctgc tcgtcgaggc 120
gctcgatccg tagcctggc gttaaggctg caactgtcgt caccocaaag tacacttcac 180
tgaagcctct gggagatagg gtgcttgtga aagctggtgc cgcagaggag aagacagttg 240
gtggcatttt gcttccatct acttgccaaa ctaaaccaca aagaaggga ggtgttgctg 300
gtggaacaag aaagaccatt ctggacaaga aaatagctgt ggatatagag actggagcac 360

aagtagtata ctcaaagtat gctgggactg aggttgaatt caatgactca aagcatctta 420
 ttctcaa 427

<210> 50055
 <211> 352
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-D11

<400> 50055

cgggtccggaa taccgcgggg gaccacgcg tccggtcttc ttgtgttttc tagcgttttt 60
 ctctgccaga agaacaggat tctgcggagg attttttaag agggccggga aggccctcca 120
 cnacaagctt ataaggagga gctcaccaag cttctcgtat tcataagctt tccaagttgg 180
 cctactacta ctacgcttgc ggcgccgaag ttccgtggtc gctgctcgag aacatggagg 240
 ccctctccac catctcgatc tcattctgat gagtttagat tgccatagaaa cgtactccgt 300
 ggctggcttc ttatgtctaa cctggcttct taagtagctt cttcttattc tt 352

<210> 50056
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-D2

<400> 50056

ccgggtccgta ataccgggt cggaccaacc cttccggttg aggagaattc cgcggcgcttc 60
 tggacgacaa tagcgccgaa cgtggactat tgcagctcgt ctgtggcgcg gctgatcgcc 120
 cgggatcggg gcagctagtg aggggcatca tctggtgcgg tgacatcacg gcggggggcc 180
 tgccggcgtgg ggaagaagtg atgaagaaga gcgtgggtcc cagcacgaag ccgacccatg 240
 tgaagcccag cactctcaga aggatgaaga gggctaggag ggttacaaag atgtccaaca 300
 ggggtggcaaa ctcaatcctg tctgggggttc tgaaagtcac tggctttgtc acaagcaccg 360
 tgttgaactc caaaccagca caaaagtttt tcaagttaat gcctggtgaa gttattcttg 420
 cttcacttga tgga 434

<210> 50057
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-D4

 <400> 50057

 ccggtccgga attccccgggt cgacccaagc cgtcgggtcc gggtgacatt ccgactcctg 60
 taccttcccc tccacgagtt ccttccagaa gggaacatcg aggacattgt aagtgaatta 120
 tgtgctgaga cgggagccaa ccaggaggat gccctcgcgc gaattgaaaa gctttcagaa 180
 gtaaaccgga tgcttggctt ccgtgggtgc aggcttggtat tctcgtaccc tgaattgaca 240
 gagatgcaag cccggggccat ttttgaagct gctatagcaa tgaccaacca ggggtgttcaa 300
 gtgttcccag agataatggt tcctcttgtt ggaacaccac aggaactggg gcatcaagtg 360
 actcttatcc gccaaagtgc tgagaaagtg ttcgccaatg tgggcaagac tatcgggtac 420
 aaagttggaa caatgattg 439

<210> 50058
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-D5

 <400> 50058

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 ctactcaggc gccacacatg gcatcccatc tgcggccgc cgtaccccggt ttccacggcc 120
 tccggggcta cgccgcgcac aggtccgcgg tggcagcgct gccgtccgtg aggggtgggca 180
 ggaagaggtc gtcgtcgcag ggcattccgt gcgactacat cgggtccgcc accaacctga 240
 tcatggtgac gacgacgacg ctgatgctgt tcgcggggcg gttcgggctg gcgccgtccg 300
 cgaaccgcaa ggcgactgcg gggctgaagc tggaagcgcg cgactccggc ctgcagacgg 360
 gtgacccgc cgggttcacc ctgcgcgaca cgctggcctg cggcgccgtc tgccacatcc 420
 ctgcggtcgg catcgtgctc gggctc 446

<210> 50059
 <211> 86
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-E2

 <400> 50059

 cggaattccc ggggtgggccc aagccttcg gcctaccaa aaagccaaaa gcccgtagg 60
 ttacttcgct gcctgaggag ccccg 86

<210> 50060
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-047-Q1-K1-E4

 <400> 50060

 atcggtcctg aattcccggg tcgagccacg cgttcggcca agccttccaa aaaaggagga 60
 gatggagcac aggcccaagc agcacctcgg cgagggcggc gccatcgccg cggcgccctt 120
 cgcactctac gagaagcacg aggcgaataa tgaccccgag cacgcgacaca ggcacaagat 180
 cacggaggag gtcgctgccg cggcgggccgt cggcgccggc ggctacgtat tccacgagca 240
 ccacgagaag aagaaggacc acattgacgc cgatgaggcc agcggcgaga agaagcacca 300
 ccacctcttc ggctgaccgt agtaccggcc ggcgcgcgac cgagctagct agcttcggcg 360
 cacacaacca cacacctgtt taattctgta ctgcatgcgt gtgtaatttg atggttcaca 420
 ataatgag 428

<210> 50061
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-047-Q1-K1-E5

 <400> 50061

 acccacgcgt ncgcccacgc gtccgcccac gcgtccgccc acgcgtccgc ggacgcgtgg 60
 gttcaaccgc tggaccttcg atgatgtcca ggtgaacgac atctcgctga acgactacct 120

cgctgtgaac gcgacgaagc acgcatgta cctgccgcac accgcgggac gttactccaa 180
gaagcgggttc cgcaaggcgc agtgcccgat cgtcgagcgc ctacaaaact cgctcatgat 240
gcacgggcgc aacaacggca agaaggtcat ggctgtccgc atcatcaagc ataccctgga 300
gatcatccac ctgctcaccg atgccaaccc catccaggtc gtcgtcgacg cgatcatcaa 360
cagtggaccc cgtgaggatg ccaccgatat tggttccgct tgtgttgtga gggagc 416

<210> 50062
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-047-Q1-K1-E6

<400> 50062

gtccggaatn accgggtcga cccaagccgt cggttgggtc aattgatcct ggaaaagatc 60
gagcttcttt ggcaccacaa ggtcgaggat gtcttgcaac tgcggatcaa gctgcggctg 120
cggctcaagc tgcaagtgcg gcaagaagta ccctgacctg gaggagacga gcaccgccgc 180
gcatgccacc gtcgtcctcg gctgggcccc ggagaagaag gccgcgcccg agttcgtcga 240
ggccgcggcg gagtcggcg aggccgcccc cggtgcagc tgcgggtggca actgcaagtg 300
cgaccctgc aactgctgat cacatcgatc gacgacctg gatatgatta ttatctatct 360
agcttgtggt ggtggttgaa caataataag cgaggccgag ctggctgcca tacatangta 420
ttgggtggtg tgtgtg 436

<210> 50063
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F11

<400> 50063

aacgacggta ggtttggagg tgctgaaact gaagtatctg tgttacatgt gtatgttcac 60
agcagatgaa cttttactag cagatgaact ttacagcgtt acatgtgtat gttcacggca 120
gcaccctgtg tgtatgtgta tgtgtatgcg cctgcgcaac ctactacttt gcgggctcct 180
actccccctc ctctgtcttt cagaccggaa ggatgccttg cccatccagc ctcttgata 240

cccagaacac cagtgacttg g

261

<210> 50064

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F5

<400> 50064

tgacaagccg gggcggtggc ggtcgggtgt ggagcggtac atcgagcatc tgatggcgct 60
ggcgtgcagg ctcttgggcg tgctctcgga ggccatgggc ctggacacgg aggcgctggc 120
cagggcctgc gtggacatgg accagaaggt ggtggtcaac ttctaccga ggtgcccga 180
gccggacctc acgctggggc tcaagcgcca caccgacctg ggcaccatca cgctgctgct 240
gcaggacctc gtcggcgggc tccaggccac gcgcgacggc ggcgggacct ggatcacctg 300
gcagcccgtg gagggcgccct tcgtcgtc 328

<210> 50065

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F6

<400> 50065

aagttccggt ccggaatacc cgggtcgacc caagccttcc gcaacccttc cgagggattg 60
ccactttttc tacattttcca gttcgctatg tggaaggctg acgagcaaca gttacatgaa 120
tggaatcga aagtatgcag aatgcagggt tcatcaaagtg ggtaccaagg aaaaaaatg 180
cctcccaagc ctgcattgtt tgccttctgt ttgaggcctc gtggactcga tgtaccatac 240
aagggaccaa agcagcgttc tcataagaag cttatgtcta caggctgcca tagcttttca 300
agacagcatg atggctttta ccggcaagta tcaagtagga gatacaatga atgcactgtg 360
gatggcgga tatgcgaatt atatgacatt ggttctcttt attccctaac aggggt 415

<210> 50066

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-F8

<400> 50066

cggtccggaa aacccggggg gaccacgcg tcgggggtcc cttctctcaa aaatcatttt 60
ataacaagcc aaactaaca gcctgagaag ggtcttttca ataagggggc gccctacacc 120
cataattcta ccgaagaaag aacgctccta ggcgatgaca gggattacta ctgc 174

<210> 50067

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-047-Q1-K1-G2

<400> 50067

ccggtccgga attcccgggt cggcccaagc cttccggttt tttgggcat tatatttttt 60
ctgtccttct aaaagtggcc ttatactgtc tgcaggagcc taacttaacc aaactctata 120
ttcaaaccta actctttaaa cagtgaaggc tgcagtccaa aaccctggca aaatatggtt 180
tggtcccggt ttatgcacga tttgttggga cattgagctc accaatacga ataagtggac 240
gtgcaaaaca ttattctagc actggtgatg tattatagac a 281

<210> 50068

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-A11

<400> 50068

cggtctcgga attcccgggt cgactccacg cgtccggaaa gaggtcgcag ctcgatgag 60
agagatcacc gcgctggggc ctgatggggc aagtccgaag gtgtcaccgc tctggtgggc 120
tgagcttgag attatgactt ctgagagctg agttcgactc gtgccagaag atattgtttc 180
tcctagtgtg actgagaatt ctttgagcta ctactggctg ctgctaactt tgtttgtgga 240
agtggtgatt aggtagactt tgttatgtgt gcagaattgc atatagggat tggatttgta 300
cttgatcatg tcaagaaggt ttaacacaca acatactgat atgcaggcat tccagccagg 360
tgagcaatag aaagcatgtg tggtttgttt ttgctgcaaa aa 402

<210> 50069
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-A12

 <400> 50069

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 atgcctcctc aagtgaatca aggggcacag aacctcaac aagtatgtca acagagaaca 180
 cacctgtgtc catcaacgtc ccaaagttgg cagagggcat tgaatttggg aggcaaccaa 240
 tggtcacatc ctccactttg gtagagctaa caactagact agattttcttc aaggagcgaa 300
 ggtcgcaact gatggaacaa cttcatagcc ttgatttggg acgtggatct gctccgcaag 360
 gttttccatt caagccaccc tctccttggg accaccaag gtaggaggat gaccgttcga 420
 tttcatgatt gtaaattctt caatagtggg tccttttc 458

<210> 50070
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-048-Q1-K1-A3

 <400> 50070

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 aacattattg tcaaagtgcaggagatgcc acagtggatg ctgtctttgc taagatcgac 120
 gagctgctgg gttctatcct ggagaagaaa aatgaaatgg tttccagcac atgagcaagg 180
 taaaaatgat tgggtgcagt gcagatccga caagttcatg taatgcaagt cacctctcat 240
 gataggaact tctccagggg aatatatctg aagcacagga cgacacgtac aagtaatgta 300
 agccagtctc acgtaatgga aatttctcca tgtggatgtg gtcaaagcat angaattttt 360
 ttcctccaat tattaactgt acg 383

<210> 50071

<211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-A4

 <400> 50071

 cggacgcgtg gggcagccgt gcagtgcctga acttactaat gaactggtag gtcagcctga 60
 agtagttttg ataaaagcag ttgccaaaga gtctgcagct cgcaggatca cctgctatat 120
 gtgcgtgttc ctgctatctt tcggaaagat ttgggttgta cataatctgt ccttaccctt 180
 ctttttttaa aaaaaattat gttcctacta ttcttaaaaa aaaaaagct aaaaactata 240
 aataaaaaaca aa 252

<210> 50072
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-B11

 <400> 50072

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 ggtggttggg cagatctcgg tgtctattcg tggacgatat gctaaggagc taatgagaaa 120
 ttcaatgagc gctatcaaag atgagccaga acggaccatt gatccaacca gagttttgga 180
 aaaggcttat attagtacta aagcaagggg gtcactacc gcgtgtatca tcactcttaa 240
 agatcagggt atccatgctg taaatctcgg ggatagtggg ttcgtagtag tccgagatgg 300
 ccgcactgtt ctcaggtcac cctcacagca gcatgatttc aattttactt atcagcttga 360
 gagtggaggt ggcagtgatc ttcttagttc cgcacaagta tttcactttg cgggttcctt 420
 ggatgatgtt atcgttgctg gcacggattg actatttgac aattt 465

<210> 50073
 <211> 248
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-B12

 <400> 50073

gattccccggc ggcacccact cgtcctccca ctcgctcgct tttctatagc atgtatcagt 60
ccaggactcg ttttttttct gtcgagtatc cttgcaagtt ccgactccct cactcatctc 120
cgttcgctcg tctcacggac ccctagctcc tctccacgcc ggacacgtcc agattctatg 180
cctactacta tcgctaacgc tcttttatct ccgaggctat gcaccatctt cttcattcca 240
ttctccca 248

<210> 50074
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-B4

<400> 50074

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agaagagtaa cccctcgtct cgcggggccc gggggagccg cggcgatatc gccctggcg 120
gcgggaccgg cggggtcggg ccgaccaggc gcccctttaa aagggtctggg aacaggcagg 180
cgccctacca gccgccgaag gccccgacg ctgcgtggca gcacgacatg taccctgcgg 240
tcgccgcagg aggcggcggc ggcggcgga ggggtctcggc tctcgagacg ggcgccaagc 300
tctacatctn caacctggac tttggggttt cgaacgagga tattaaggag cttttctctg 360
agctaggtga tttgaagcgt ttttcgatta attatgatcg aagtgggagg tctaagggaa 420
cagctg 426

<210> 50075
<211> 171
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-C12

<400> 50075

gattccccggg tcgacccact cgtccgcca ctcgctactac cactcgtccg ctctgccttc 60
gccgctccct attccttcag acgctctttc cactcgggtac aattcgtcac cagccccgca 120
ggcgccatca ccgacagggc gctagtagac acggactcca ctaataaggc a 171

<210> 50076
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-C7

 <400> 50076

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 tttctatccc gacacccgct acccgggtggc tgtgcgggttc aacaaggtga actacgccgg 120
 cgtgtccacc aacaactacg ccttggacga ggtcttagag gtgaaatgag tggggccggc 180
 cggctcaagg gctccaagct agctaccgtg tgattgatta gtagtatttg tgaaatgagg 240
 ctgcgaagct gcatgctgtg ctggctagcg tcaccacttc gaccctatgt g 291

<210> 50077
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-C9

 <400> 50077

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 cttggcttga ctggaaacaa ggtcgaaagg ctgtgtgatac tttgccacat cacattgaac 120
 aagaatgctg tcttcggtga cagcagtgcg ttgtctccgg gtggtgtccg cattggcgcg 180
 ccagcaatga cctcgagggg tctactggag aaggatttcg agcagattgg ggagttcctc 240
 caccaggcag tgaccatctg cctgaacatc cagaaggagt acggcaagct cctcaaggac 300
 ttcaacaagg gcctggtgaa caacaaggac atcgagaacc tcaaggtcca tgtggagaag 360
 tttgccgact ccttcgacat gcctgggttc acgcttgaga gcatgaaata caaggagtag 420
 atatgcctct ttcatgcgcg gcaaagggtcc tctgtaccga tgt 463

<210> 50078
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-048-Q1-K1-D12

 <400> 50078

aattcccggg tcgactccac tcgtccggtg gagatctcat cacacaacag actctattct 60
acgccatgtt caattcagac gcaggtgatg tttgacagaa ccgaatgtcc aataacgcct 120
actatcagga ggcttactag ctccgggttac atcttgagca gactattacg gaagctcgct 180
ccgaccgttc agcaagaaac tacacgata 209

<210> 50079
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D6

<400> 50079

ctgacatttg ccattaatgt atgttggttg gtatgttatt cctaagaatt cctgggggat 60
tggaacgtac tgtataaacc gtgggtatccg agcttcatgt ttgcttgatg cttatgcaaa 120
ttgaagggtg aataagtgtc agtttcacc 149

<210> 50080
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-D9

<400> 50080

cggaattccc gggtcgaccc actcgtccgc gcactctttc gtggacgcgt gggcttcttc 60
agatcgatcc cattgatcga tgtggggctg cttgtcgaaa agattgatga tccaagcatg 120
gccaactata aggatttact gcatgttgtc cggttactgg atgatgcttg caaggaggcc 180
tgattcttct atgtgaaagg ccatggtatt gatgagtcac tgatgaggga agtcaggaat 240
gtaacccgag aattctttca ccttacttat gaggaaaaat tgacaattaa gatgacacct 300
caaagcggat atagagggtg tcaatggata ggggaaaata ttaccaaggg taagcctgat 360
atgcatgaat caatcgattg ttatactcct attacacctg gcacatatgg agatcttgct 420
aaaccaat 428

<210> 50081
<211> 300

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E11

<400> 50081

tcccggcgtc cgacagcagc gttgcctaga gaattatgac tgttttccat catacgatgc 60
 catcacattt ttgtgcctgg cttttgctgc ttgtacagac ttcatacttg tccacgttgt 120
 tcctcctacc agatctgtga tgggaagtct ttgacatttg tatttagttc tcttttaccg 180
 aggagaaaat ctatgtacct acatatcttg ttgtctgaag cccaatgact agatacttat 240
 cttgaagcca tatccataat cttatcagca atgtgattat ttttaaaaaa atactgcttt 300

<210> 50082
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E12

<400> 50082

ccggtctcgg aattcccggg tcgactccac tcgtccgaga ataccagaat cgaatacttt 60
 cttatggtat tgctggagct gtggtctttg ggggtgtgat gatcatctta ggaacagcta 120
 gcatccagaa atttgaggcg gtgaacttgc tgttggctgt gatcctgtta ttcacttctt 180
 acaagctatt tgctgaagaa gaacaagaat ctgatctatc cgataacttc attgtgaaaa 240
 catgccaaaa gttcattcca gtcactgaat attatgacga ctatcggttt ttcacatatc 300
 aagacggttt atggaaagct acaccattgc tcttgacttt ggcagtgatt gagctaagtg 360
 atattgcttt tgctattgac tcaataccag cagtttccgg cgttacaagg gatccactta 420
 ttatactatc atcaaatatt 440

<210> 50083
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-E3

<400> 50083

cccaggcgtc ctttttacca atccctcact caacagcctt ttgacgtcat acaatccttc 60

catgctgttg tctactgcat attatcgaat ggatctttat gaacgtccct taaatgaggt 120
gctgtgaca aatttttttg gatcagtcac gaagactctc cacactgatt cagcctacac 180
aggtttcttg gctgcgcatg acaatgaaac tccaatgtcc acgggagata accttgatga 240
tcatttcatg ttaaaggga gggctatcgc acgaagatca accatagaaa aggaagcaca 300
attaacaccg catggatgga ctgaagttct tgctgaac 338

<210> 50084
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F11

<400> 50084

tcccgggtcg acccactcgt ccgctgctcg tcatggacat cttctcgtat cacctcgatg 60
atcgttacgc ccaaaaccgt gaatgcctac tacatctgta tgcactatcc actgcagtac 120
gtatcacatc tggacgtgct aattatagac ctctaaaact tgaactgcat gaccattata 180
cgtactcagc cgatgatatc atgagtgaag cacacataga tcttcagcct atgatcacat 240
gctccatctc ctttggagat acttcacgtc ttgattacat gcatattgga aggtgtttca 300
tgaccaaata caactccctg attaaagata gcactgtaaa tgttgcgaca aataaggtaa 360
aacatgatgt gcacttaaag ctacataacg tttaatca 398

<210> 50085
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F12

<400> 50085

taccggtctc ggaattcccc ggctcgactcc actcgtccgc ccaactcgtcc gccactcgt 60
ccggtcgtgg tggacgacgt gctcaagggc atgagggacc tctccgccgg gatggacacg 120
gtcaagtctt tcgagtgggg ccaggacgtg ctgaaccagg agatgctgac tcagggtctc 180
acgcacgtct tctcgtcac ctctgcctcc gtcgcctacc tcgccgcta catggccac 240
gacagccaca ccgccttcgc cgccaccttc atggccgtca tcgacaaggt gctcgtcgtc 300

gacttccccg tcgtcgtcgc caagcctccg ccgccggcat gacctcgtgg ccgctctcgc 360
atccgccggc cactgtacgc ctcccccttct caggtcgcgc agcagatcca cgtgtgcctg 420

<210> 50086
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-F3

<400> 50086

ggttcggaat tcccgggtcg acccaagccg tccgtgccga acttcagcac gccattgagc 60
tccagagccg ccgcctcatg gatctccagc tgcgcgggtct caaggctcgc gcagctgcga 120
cagcagcagc ggcatcggca ctgccaacac cagttgccaa tgccttttgcg tccaaccatc 180
ctttgagcac catggcagtc gagtcgccac tagagtccgg agagcagctc aagctgagca 240
gtgggtttgc tctggagggg aagctcaacg gtggcgacaa ggaagaatct gcttgcgagg 300
cgagccctga ccgcgctgat agcgacaaa ggtggattaa acaaccatt tcatcattct 360
tcttccttgt taagtatgat tcccacgctt ggcttcatg aatcatgatc ctatatgtat 420
atggatatta atcaggtcta ggaagttcaa ca 452

<210> 50087
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-G12

<400> 50087

attccccggt cgaccactc gtccggagct cacaaactat agtggcccga ttttcaagca 60
tactccattg aacctgaggg tgtagttttc caacgactac gggttctaca cctccggcct 120
ctcttccgac ccggagacat tttcgcgcaa ccggcatctg gacgtgatcc actcccgggt 180
gtcgattctg cgctctctgg gctgcgtgtt ccccgagatc ctctccaaga acagcgtcaa 240
gttctgctag acaatgtggg tcaaggcctt ctcgcaaate ttctcttaag gctggctata 300
ctacctgctg aacaccaacc tggttcactc acacatcatc cttaccatct attcttt 357

<210> 50088
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-048-Q1-K1-G3

<400> 50088

gaattccccg gtcgaccac ccgtccgcgg acgcgtgggg gcaaatttat tatccgtggg 60
gagaagtcca ttcagcagac aaaggcggag acacaatttg atgtgactgt gcaccatcag 120
atatggcgtc cgaggataca ccatatgttc acgttccagt tggtatcgac ttttataatg 180
tctcaccgtc aactgagat aagtcgaaaa aggagataca ccgcgtggat ggagaaaaag 240
agaagaaatn ttgggagaca ttggaagtgc tgccagtggg gctacgtcta agctcagaac 300
aaatggntta tggtttttcc nctaattcgg tcgtatttgg atgctngagt cctgcattgc 360
atgatgaaga acattctcaa tctctctttt ttggtaataa tttaaatcag gatctatang 420
gtaaaggaag tggtttggaa cagatttctg aatca 455

<210> 50089
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-048-Q1-K1-H10

<400> 50089

acccacgcg tccgcccacg cgtccgccca cgcgccgctc gacttcgagg ccgggcaggg 60
caagacgccg ctccggcgcg tcggcctatg atttgcatgc tgccggcgac cgagtcagtt 120
ctcgattgcg cgcgggggtgg gtgagctcct agggacgtac ggctgcagcg gatcagacgc 180
cttgctcgc agattggagg ctaaagaaga gcgtagcagc aatctactgt ctgtgttggg 240
ggtttcttct gggtaacgtg cgtgaaccag atgggggtgtt cctctctgtt tttttttttc 300
ttttctgtgt atgtatgtac catgtaatgt atagtatgga tcgatttcat tgcatt 356

<210> 50090
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-B1

<400> 50090

gcgccgtgct cgacaacctg gcgctctccg acgtcgggct gctggaccag atctcgtgcg 60
ccgacgacgt gcgctccgcc gagcgcgccg acggcgccgg ccaggtgtac tacgagtacg 120
aggtggcggg cgccagcgcg cacagcctca tatcggtgac gtgcgcacgg aacaagctgt 180
acgcgcactt cgtcaccgcg cccaacgccg agtggagccg cgacgaggcc atgctccgcc 240
gcttgacaga gtccttcaag accatccagc ccggcgcccc gccaccggcc acggagacct 300
agctccatct gagcacgagc gagaaacctt ctgagcgatt cgcggtgcgt tgtaattgct 360
agtaaaaatc atcagttttg taaaaa 386

<210> 50091

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-E8

<400> 50091

aattccccgac tcgaccact catccgttga ctctactat atcaccttat ctcaattcta 60
acacaacact aaatcattgc aaactggtat aatccataca actgtgtaca actagcatac 120
atactaatat atctctctga ttacaaaaat actacgcctt acttaacgcc cactacttat 180
ccaccattat caactgactt accgcccata aaatt 215

<210> 50092

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-049-Q1-K1-F7

<400> 50092

ggaacttcct cggcgagaag aaggtcagaa aggtggacat gcttgacggc gtgaccatcc 60
gtccgctccg agaaggtcaa ggacgagctt attctcgatg gcaacgacgt cgagttagtc 120
tctcgtccg ccgcctcat caaccagaaa tgccatgtca agaagaagga tatcaggaag 180
tttttgatg gtatctatgt gagcgacaag ggtgtgatcg aagaggagca gtgagggaca 240

attagttggtt atcgtttgag ttggaattat tgtttgggtt gcaattttct caaggtgaac 300
 tttgtaatcg gttaggatgt gttgtggacc attatcttat cctacaatat tatcgatatct 360
 gcttaagaat atgaagcttg tttatcaaaa a 391

<210> 50093
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-049-Q1-K1-G11
 <400> 50093

cccacgcgtc cgcccacgcg tccgcccacg cgtccgtcaa catcaactaa aagacgccag 60
 gcgcgcgccat ccatgctgcc gtccgcgcgt ggccggagga ggaggagagg aggaggagga 120
 aaatacatga aaaataaaac ttgtacacgt gtatgtctcc agattgtgcc gccgtcgttc 180
 tcgtcggtga cttttcgttg tattggtcga tccatatgtg tgtgcgtgtg tggcgatggt 240
 ctttcttctt tgagtagctg ccctgccacc gcctgcaatg cgcattgccat ggcaggtagc 300
 gttgtctaag atcctatact gttgtatttt ggggtgaact acatcttacg tgctcaattt 360
 cttcttctaa gtaaaaa 377

<210> 50094
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-049-Q1-K1-H7
 <400> 50094

ctagcctgga attggttgaa ggaaaggagc ttccgggagt tgttgccttg aatgaagccg 60
 ccactgtgac tgtatgaagc atgctttcat tttgtttcgt cttcgtcttc atgtgccgtt 120
 gtatacttgc tacattctcg cttgcacctc cccagccgct cgctcgaaat gtaagagacc 180
 aatgttttat agagccaatg gaaatcgttt gaacaacgac gacccaaata gtatgtgctt 240
 taccgagtga tctttcctcg gtaacgtaac tagtgatata aaaaacattc aaaggcaaaa 300
 aaaaacaaca tg 312

<210> 50095

<211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-A11

 <400> 50095

 atccccggct cgacccacgc gtgcgccaca cttcagcggg tacatccagt acatgcttct 60
 cgtaatgttg gggaaactga tgagggattg agcagcttcg cattgggttg cgtaaacctg 120
 cgaaagcttg aactcaggag ttgctgcttc agcgagcgag cactggccct tgcaatacta 180
 catatgcctt ccctgaggta cgtatgggtt cagggctaca aagcgtctca aaccggccga 240
 gacctcatgc tcatggcaag gcccttcttg aacatagagt ttacacctnc caatcctaag 300
 aacggaggtt ggctgatgga agatggggag ctttgtgtag atagtcacgc tcagatactt 360
 gcataccact ccctcgcccg taagaaggct gactgcccac 400

<210> 50096
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-B12

 <400> 50096

 gaattcccg ctcgaccac gcgttcgcag gaagaggctt cagcttctgg tctcgttcc 60
 atagtcgaac tggctactgc aaccagagac caagaggaaa caaaagccac aaaaagagat 120
 tcaaaacaaa ataaagttgg tatcacagag atggaggaaa tttgtgtggg actgcaatga 180
 atcaaggaac acgcaagcca taagacgatg tgtttatgga tgaagatgat gatgccatgc 240
 cttcagataa tgttgcaaaa gatgacacta atgggttggc agagatggaa gaggatgctc 300
 tgacagaaat a 311

<210> 50097
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-050-Q1-K1-B9

 <400> 50097

ctgctcgtac cgggccggaa agacgaatgc accaagcttg atgacggcat cttccgtggt 60
gttaatagct tcggtttcaa gtccgagggg acggaaagga agctctccaa ggatgacgac 120
tgagcgatat atcgccata tagtctctcg atataaactt cgagcgggtg gatttataaa 180
taagccatat taatgtaata atgctttaat aagcagttca tatgtgtgtc gaaaatacgt 240
tttaatttta tactactact acgtgtgcat gcactcttca tgtgtaatgc tttacttgta 300
atttattgcg aataaataaa gagagtatgt ctcaaaa 337

<210> 50098
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3078-050-Q1-K1-D10
<400> 50098

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ccgcccgcctc gcccgcgagc ccggaggatg atgtgcgttt tggacgggtc ttgtccggtc 120
cgtgcgtgaa tggaggggag gacgtgtcgg aaggtaatca gcttctcgtc ggcgggacag 180
ggggggcgagg aggctgcgag gcgagagacg ccggatgaga cacggaagcg gctggaggag 240
ctggatgcgc tgctggaggg gctggtcgag gcgtcgagcc catggtgcgg ccttcaacgc 300
caccttgctc tccgatccg tacttggacc gaggcaccga gccaccgagc catgataacg 360
ggacgggggat catcagccga tgag 384

<210> 50099
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3078-050-Q1-K1-E12
<400> 50099

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ttcgggttcg tgaggttctc cgggggtcgg ttctgtgggt gagcggatcg agatggcggc 120
gtcngatgtt gagtaccgct gcttcgtcgg cggcctcgcc tgggccacgg acgaccactc 180

ccttcacaac gccttcagca cctacggcga ggtcctcgag tccaagatca tcctcgatcg 240
 ggagacgcag aggtcccgcg gcttcgggtt cgtcaccttc tccacggagg aggcgatgcg 300
 gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca ccgtcaacga 360
 ggcccagtc cgcggcgccc gtggaggcgg cggcgggtggg tacggtgggtg gccgtggagg 420
 cggc 424

<210> 50100
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-F10

<400> 50100

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 acacagactc ttaagaagaa ctcaggaag cctggcccgt gttcgacaag gaccagaacc 120
 ggttcatctc tgctgctgaa cttcgacatg tcatgaccaa cctaaggagg aaactgacgg 180
 acgaagaagt ggatgagatg atccgtgaaa ccgacgtgga cggatgatggc cagatcaact 240
 acgaggagtt cgtgaagggtg atgatggcca agtgagatga tgtgcctgtt ttgaagctag 300
 ttctctctt gatggtagta gctagtctag tggtggagac tgactgcatt tgggccgcct 360
 tgttcctctc gctgcatcaa tggacatatc cgtttgtttt ctccaaggg attttaccat 420
 gtcngtaatt tcgttcaaa 439

<210> 50101
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-050-Q1-K1-F11

<400> 50101

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 ggatagactg cagatcgagg gtctggcagc ttgccgtggc agttgggtga ttacgactaa 120
 tagagatggg ccttctcgac aagctgtggg acgacaccgt cgcgtgcccg cgcccggaca 180

ccgggctcgg tcgncttcgc aagcagcctg tgcgttcgcgc cgccgtcaag atcagtgatc 240
 cgcccgggga cgctgcggcg ttcgtgccgc cctcgccggc ttcgggtagc gaggagacgc 300
 cggtgaaggt gactcgcatc atcatgatca agcgccccgc 340

<210> 50102

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-F5

<400> 50102

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 cgcggttcgg gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc 120
 atgaacggca aggagctgga cgcccgcaac atcacgtca acgaggccca gtcccgcggc 180
 ggccgtggag gcggcggcgg tgggtacggc ggtggccgtg gaggcggcgg ctacggcggc 240
 ggcgggcgcc gtgatggcgg cgccggctac ggcggtggcg gcggctacgg tggcggcggc 300
 ggctactgtg gtgggtggcg cggtacggc ggtggcaacc gtggcgggcg ctacggcaac 360
 tccgacggga actggaggaa ctgagcggcg gggccccgcg ggtcaagtta tcctgttcgc 420

<210> 50103

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G10

<400> 50103

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 aggcaatggc gtccaagggt gagcgggtgg tggagggtcaa gtccccggct gacaagctgt 120
 gggcgggcgt gcgcgactcc acggagctgt tccccagat cttccccgag cagtacaaga 180
 gcatcgagac cgtcgagggc gacggcaagt cgcccgccac cgtccgcctc ctcaagtaca 240
 ccgaggcggc gccgatgctg acgttcgcca aggagaagct tgagacggcg gacgacgaga 300
 acaaggtggc gtcgtacagc gtgggtggac gcgagctggc ggacttctac aagaacttca 360
 agatcacgct gaaggtgact ccggccaagg cggacggcga gggcgggcgc gtcgtcagct 420

gggccatgga gttcgac

437

<210> 50104

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G11

<400> 50104

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ccgtggctgc aaaagcctac tagctcgggc tgccgaccg tctgcctgcc ccaacgaccc 120

tgtgaaatat gccgaaaact ggatgtacac ttccgtctac cgaaactacc ggtaatgctg 180

gcgggaatca attttgccag tattaaaaaa tctatcaacg cgggatggta ctctgttggt 240

tatagtcctt gctgctaacc acccttggtg ctggtgctgc tggagaggca ttgtacctgt 300

ccatgcatat atgatata tatgttgtaa cgttgtgaaa gcaaacaatc ttgggtacca 360

atgtttggtt 369

<210> 50105

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G12

<400> 50105

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gcaagaatca gcaggccat tggtagatt tatcagcagg aacagaatta atagaaggct 120

acaaattacc tgaaaagggc agctgacctt tttgacagtg aggacagtc gtctcaatca 180

aacaccatca aacagaaagt tgcagaaatt gctgctcagt tggaacagta cccaaaagca 240

actgagatat ttgaagcgat cgctcgtcag tcaatcaaca acaatcttct taagtatagt 300

gtcagaggaa ttcttcttaa tgctggcatc tgtcaactat gtaaagggtga tcctattgcc 360

atcaciaatt cattggagcg ataccaggaa attgaccga ctttctctgg gacacgtgaa 420

tacaagcttt tagctgatct tgctgcatct atggatgaaa gggatg 466

<210> 50106

<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-050-Q1-K1-G7

<400> 50106

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gaacttcctc ctcagcatcg tgtccggtgg ggtcgtgctc gttggtattg tcggcgccgt 120
cgtcgccgtc tccaacttcg accccgtcaa gagggcctga tcggaatcca tcgtatcgat 180
cgtctcgctt gtgtcctgtc ctgtgcctgt gctgtctgta tcgactgggtg gtgctatatc 240
ccctgtgtgt taattgattt tggagaatgt tcagacgtat atctatgtct aagaaatgga 300
gttcgagtta aactttgctg agacttctct tgtctatata atattattag taggaatcaa 360
aa 362

<210> 50107
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A1

<400> 50107

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cagcctcact agggtttagc ggcggcggcg agatggtgca gcgcctcacg taccggaagc 120
gtcacagcta cgctacgaag tccaaccaga cccgagtcgt caagacccca ggcgggaagc 180
ttgtgtacca gtacaccaag aagagggcga gcgggcccaa gtgccccgtc accgggaaga 240
aaatccaggg gatccctcac ttgaggcctg ctgagtacaa aaggtccagg ttgcctagga 300
gccgcaggac tgtgaaccgt ctttatggtg gagtactctc tggaattgct gttagggaga 360
gaatcattcg tgccttcttg gtcgaggagc agaagattgt caagaagggt cctgaaa 417

<210> 50108
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-051-Q1-K1-A6

<400> 50108

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attgaaacaa aatctgctgt ggatgatcag caatggctca cgtactgggt gctgtactca 120
tttatcactc tattcgagct cacctttgct ccggtactcg aatggcttcc tttctggtct 180
tatgcaaagc tgttcttcaa ttgctgggta gtattgccac agttcaatgg agctgcacat 240
gtatatgagc attttgtgag gccaatgatt gtaaatacagc aagttgtaaa catctggtat 300
attccaaaga aggatgaatc aagtagacct gatgatgtaa tttcagctgc acagaggtag 360
attgagcaaa atggatcaaa agcgtttgag aatctngtta acaagtttaa gagttcg 417

<210> 50109

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-A7

<400> 50109

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tggccaccgt cgtgccgagg atttgtggat cgctctgtgt tcggcctcga cagaaactct 120
ggacgctcgg acctcgccgt ggacgctgat cgcctctgtt tttctctggt gcgcgccct 180
gtgettgggt cettgctagc agccgagcag ctcttcgcg ccgcagtgt acctcgtgtg 240
cgcgccttc cgaagccct taagactgtc ggcaactccc catcctctag ttgtgctcgc 300
tgctggccct gtggtgagct ccctgcttca tctcgccat ggacgccatc tagcacgcgc 360
gcgcgggatg tatttcctcc ttcgcgcagt gccttgggtga ctgtcgagta gcacaccagg 420
cctgcgcagc ctgctcgcgt ctgtatagcc ccagttgcaa tgca 464

<210> 50110

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-B3

<400> 50110

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cggcgccgctc gtcgccctct ggctgacgtc cgtggctcgtg ggcgccatca acgccgtgcc 120
 gctgctcccc aagatcctgg agctcggttg gctcggctac accggctggg tctgtgtaccg 180
 ctaccttctc ttcaaggaaa gcaggaaaga gttggccgcc gacattgaga ccttgaagaa 240
 aaaaatagct ggaacagaat aaacgctcat ggaaagtgtt agagcgtcct ttcttctttg 300
 gaaagagatc tattcgatcg gagaaccaat gcaactactt gagtactatt attgccaaaa 360
 a 361

<210> 50111
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-B4
 <400> 50111

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 tgccggcgcg tctcgtcca cggcgccgct gaaggccccc aacgccgcg tgcccgcggc 120
 cggcgtgtcc gcgcccgcgc tacttgcgct cgcgctggtg ggggtttttg cggcggtatg 180
 gtgacgcgtg aatggtggag ccatcatccc ggcgaagggt gcggcgggcg gctggggacg 240
 aaatatcgcg cctgtttctt tgtattgggg ttctgtttta agctttgttt ttggccgtga 300
 aatagaaata gttgctgtac ttgttgagcc tgtgtttggt agagtcatag tgacgantta 360
 ttattactag cagtaccgag tctgtgatca tggccc 396

<210> 50112
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-051-Q1-K1-B6
 <400> 50112

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 cgcaacgctc tatctctttc gccgagctcc gtgggaccct atgagcgtgc ttgaccggcg 120
 gcggcgaggt gatggcgatg gaccctgacg cggtagcgaa ggccttcgtg gagcattact 180

accgaacgtt cgacaccaac cgcgcggcgc tggttgggct gtaccaggag acctccatgc 240
 tcaccttcga gggccagaag ttccagggcc cctccgccat tgccggcaag ctccgatctc 300
 tccctttcca ggcttgcgag catcagatcg tcaccgtaga ctgccagcca tcgggtcccc 360
 agggaggcat gctcgtcttc gtctccggtt ccatacgcac cggccccgag gagcacccca 420
 tcaagtt 427

<210> 50113
 <211> 343
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-C10

<400> 50113
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 gaagagtctt agcaattaca gttctcaaaa ttttaaattg caatttttca gaaacctcgg 120
 cagccaactt tttgttttca tgtaacaaaa ttaggtccct aacaaaacga aggagctagc 180
 atcacatgat cactcttcct cttcgtcgtc accgcctcca ccagaagcct tcttttggtt 240
 cttctctctt acccttcag gttctccacc accaagtggg ctggtaagag agaagtcgat 300
 gtgcttctct gagtcaactc tcaccatgaa tganggaatg ttg 343

<210> 50114
 <211> 266
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-C9

<400> 50114
 ttaccgttcg gaattcccgg ctctaccac tcgtctccc actcttactc tgactttctc 60
 tcactcttcg acgatgacct ttatcgtgat tatcgagaat attctactaa cactacgact 120
 taaaaactct aatacacagc acaaccgcaa cacaacatca ttatatatcc tcaactaccac 180
 cttatcaca acatctataa tatacacatc ccagatttta tccatcatcc atacattaac 240
 accttctact agttacctta cattca 266

<210> 50115
<211> 377
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-051-Q1-K1-G1

<400> 50115

aggacttccct cctcaccgcg aggaggaatg atgcccgtc agtgaagatc aagaggagca 60
aggatgttgt caagttcaag gtgcgtgtgt ccaagtactt gtacacgtc tgcgtcttcg 120
atgctgagaa ggcaaacaag ttgaagcaat ctcttcccc aggtttgacc gtcgaggagg 180
tctgattgga tacatggcaa cgccgggttg aactaccaa gcttctttat cagtagcaga 240
gcatgtact catgtacttt tggaacctaa gctattagac ctgtcagtgt tggatgtgtg 300
gatcttgcatt ttttgtggag aaataccaat ttacctcgtt caaggatgca aaanacacta 360
aaagagaaaa aaanac 377

<210> 50116
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G10

<400> 50116

tatagatcct caaatgaagt aattacacag gtattaggtc gtggcaaccg attgtcaggc 60
aatcaggctg tatatgttcg atgcggtatc cggttgacga ccgtaagaat tatattttct 120
atttgtcttt tgatttggtt ttcctct 147

<210> 50117
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G3

<400> 50117

ggaattcccg gctcgaccgc acgcgtccga cgactcgttc gacatgatca tggactgctg 60
cactcgatct gaggcagcac gcgctcgggc ctgtcttgac gtatcagagg gcggacttct 120

aaagcatctt ccacactctg tatgcactcc cggataccat gcgactcctg gaccctactc 180
tccaccagtt ccttccacaa gggaacatcg actacattgt aactgaatga tctgctgaga 240
ccgtagccaa ccatgaggat accctcgcg cgaatcgacaa actttcaaaa gtaaacccaa 300
cgcttggcat ccgagactgc aggctcggta tatcgtgccc tgcacgaca aagacgcaaa 360
ctccctccat ctttgaagct gctatcgcaa tgaccaacca aagtg 405

<210> 50118

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G4

<400> 50118

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gcatcctgta atagtaaaaa tttccccatt gttgtgatgt ccattgctga tgttttgcta 120
catattgctt atgcgtcaat tccttgctgc tgctgagggc tgcaaacttt caaaactagg 180
ctgcaagggtg gtgtctatat tgttaagctg aggaggctga aatgatttca atcgttgatt 240
atgcatttca gcgaggaaca caacgtcaga aaaggcaatt gttagttgaa ctgtactccc 300
ctgaacttca gctattcaag gatctgactg tgcaaagttc ctctgatac aatttccaag 360
cttgggttgc agatatcatc tgtcctgctt catatgacta ttgtgattga taaaatcttg 420
gagaa 425

<210> 50119

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-051-Q1-K1-G8

<400> 50119

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aagaactagg agttgcagga aagcggagta tgaccaaga agagacctca ctacaactga 120
ctggcccagt ggccctgctg cgcagcaatt aggggtcagc atacgaagcg aaacaacaga 180
tgatatgcat ggatatgcac aaaactgtaa taagagattg ttatttcaag aacatacgac 240

<210> 50120
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-G9

 <400> 50120

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 tctaccatcc tctacgggac ccacgggctc ttctaccacc acttgggaaca gtccttatgc 120
 ctactactct accacctctc tctcatcacc atcatcatca agcgcaagga cttctactac 180
 aactgatca ccagcaacaa gatactcctc ataacatcac actactacat gcatcatatc 240
 cgtc 244

<210> 50121
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-051-Q1-K1-H12

 <400> 50121

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 ttcgactgga gggaccacgg ggccgtctgc cccgtcaaga accaggggtc gtgcgggtcg 120
 tgctggtcgt tcagcgcgtc tggagcgtg gaggggtgcgc actacctcgc aactggcaag 180
 ctggaggtgc tttcggagca gcagttcgtc gactgtgacc acgagtgtga ttcacgag 240
 cctgattcat gtgattcggg ttgcaatggt gggctaata gaacggcatt cagttatctc 300
 cagaaggccg gtggccttga gaggagaa gattaccctt aactgggag tgatggcaaa 360
 tgcaagtttg acaagtccaa gattgttgct tcagttcaga acttcagtgt tgtgtctgtg 420
 gacgaggtc anatttctgc taacctcatc aaacatgg 458

<210> 50122
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-051-Q1-K1-H8

<400> 50122

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tgcgcccccg cgatcatcag cgggtcgccg cccacggcgt cgtgctgctc caacctgcgc 120
gcgcaggagc cgtgcttctg ccagtacgcg cgcaaccgg cgtacagcag ctacatcaac 180
agccccaacg cccgccgcac gctcacctgc tgcggcatcg cctcccag ctgctagggc 240
gctagctcgt gcctcgtggt gtggatgaat aaaaagatgc atgtcgatct ctgcttactg 300
ttatcgtatc tgtagtacct cgtgtgatat gaacaatatg tattatttaa aa 352

<210> 50123

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A12

<400> 50123

gtttttgccg agcccgtgat gaatcaggtg tcacataggt tcaggataag ttacaaggga 60
aaagtgacaa gtggacaaaa atggacaatg cacctcactc aatctcaatt tgctgatgtg 120
catcattttg atctgcctca cttgattctt cagagctgtt atcctcagct attccagaag 180
cctccactgt ccgacttata cattccttga gaggatcctc attcaggtca agcctcaaga 240
ggccagcaaa cacaccaccc atgaatgcta ctggctcctt gatggcttct cggaggatgc 300
gctcatcccc gagagggttg aagaaagctc gcacgacccc tg 342

<210> 50124

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A3

<400> 50124

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cgctcgcgcc gctgtccgtg tgcgcgagct tcaactcgccg gccgcggcgc gtctgccatt 120
ccaagaacgc tttggacgaa gttgtggtgg cggactagaa gaactgggac gggttggtga 180
tggcgtgcga gacaccggtg ctggtggaat tttgggcgcc attgtgcggt ccgtgccgga 240

tgatcgctcc tgtgatcgac aagctggccg ttgac

275

<210> 50125

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-A5

<400> 50125

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gccatgttct ccatgttcgg gttcttcgctc caggccatcg tcaccggcaa gggcccgcctc 120

gagaacctcg ccgaccacct cgccgacccc gtcaacaaca acgcatgggc ctatgccacc 180

aacttttgtgc cgggcaagtg aggggggtgga ggcgccaccg tccaccggcc accgctgcgg 240

atatctaggt gttcggatgc acgtgagcgc gcaactggttc cagtttgtac catgatgtaa 300

attacttacc gtaccagggt tcaatcggca aggaagaatt gttgtgttca aaaa 354

<210> 50126

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C3

<400> 50126

gaaataacta catgcatctt ctcatcttct gtattgagta catagaacac ttgtgcagca 60

cgttctgcga gaacacgggt catgtttata ttctactttc tttaagtata ccagtgtgag 120

taccagtgtg gtccgtagtt attcattatc acccccacgg gatgttgtac ccattgacac 180

ttaaataaaag ggtattttca tgcttgggcc aaaaaaaaaa attgcaaaag aacaacaaaa 240

t 241

<210> 50127

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-C5

<400> 50127

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 aaataagacc tgccaagcaa ttgtgtatat tctggtttcc tcgctcaact gctggaagtc 180
 taaaacctac cttatcatgg acaccgttta aattaagtaa ttgactggac ctgaaaaa 238

<210> 50128
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-052-Q1-K1-C9
 <400> 50128

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 attgtcaacc aatgtgtaaa tcccatcttg aaaggataat cttctacaac aagagtcact 120
 aagcttgcgt cattggcagc tctatgtgca caatacgaat cagagttcat gccaacatg 180
 agcatcgttg ttaaagcgtt ttcgcctctc cttcaacaaa gacctgcacc aaccaccgaa 240
 tagccagctc cacaacctgg gagctcatac cattcacatg tccatgcacc cctaggcata 300
 agccatctcc gaaaccattc aatcagcaca ttctataaat ca 342

<210> 50129
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3078-052-Q1-K1-D5
 <400> 50129

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 agagctgggc cgggagcatc tcgatgttca tttctggttt cctgctgtcc gcgatgatga 120
 tgctctactt ctcaagcctg gggtacattg atgttatctg ggaagaggca cttggtaagc 180
 tggcgcttgt tgcactagca gcgacagtag tggagtgcgt tcctgtgacc gaagttgtag 240
 atgacaacat atctgttctt ttggccacca tgctggtagc ttttctcttg tttagctcca 300
 accgcacaat agttaattaa aatactacta gtgcattatt taagacatgt gatgagttct 360

tcaaaa

366

<210> 50130
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-F3

<400> 50130

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cgatgttgtc atcgctgata aggttgctcc tgatgctaac agccagattg ttccagcatc 120
tgcaattcct gatggttgga tggggctgga tattggccca gattccattg ctgcattcaa 180
cgcagccctg gaaacaaccc atactgtcat ctggaacggg cccatgggtg tttttgaata 240
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gggtgtgaca actatcatcg gaggtggaga ctctagtccc ggctttgaga atgtctgagt 360
tgctgacgtt atgagccaca tttccaccgg atgtggttcc agcttggaaa tgttggaagg 420
taaggagctt tcaggagtta ctgcattgga t 451

<210> 50131
<211> 168
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-052-Q1-K1-F4

<400> 50131

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gccgagtact accggatcat caacggactg gacctcgagg acaagctgca ccccggtggc 120
cccttcgacc ccctgggctt ggccagcgac cccgaccagg ccgncatc 168

<210> 50132
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-G1

<400> 50132

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agctatataa gaccaaactc gtggggacca acgatgagct gatgatccat gccaaagctcc 120
caattgatat gcagccccgc aagggtgtacg actaccggga gctgttaccc tagatatctg 180
tcatgctctt ctacagcatg aacaccatcg atgtcgacga ggtcacggtc gatatcgtca 240
agtttcagaa gctcacagac gaattgacaa tgctgaacct aatgggacag atacctgcga 300
ctgttgacga cagattcaaa ctattttaaa gcaatgcgat tttcaggtat cttgcata 358

<210> 50133

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H12

<400> 50133

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gctgagccga aaccgaaacc agatccaaag ccagagccac aaccaaagcc agagcctaag 180
ccagaaccaa aaccagagcc caagccagag cctaagcccc aaccaaacca gagccaaagc 240
ctgagcctaa acccgaacca tgaccagaac cagaaccaa gccagagcct aaacctgaac 300
caaaaccgaa accagaaccg gagccacaac caaagccaga gcctaagcct gatccaaaac 360
cagagcctaa acccgaacca aaaccagagc cccaaccaa accagaacct aagcccgaac 420
caaaaccaca gccagaacct aagcccgaac c 451

<210> 50134

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-052-Q1-K1-H9

<400> 50134

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aacgattcca tccattcca tttccatttc caccagcac acgtgcacag caaaacgtct 120
ccttttggcc tcccgatgca aagtttgaaa aggctcgtcg acggatttgg gtggtcgtag 180

ccgcccgcgc gccgccggac tggtcagcaa gtgcattcct tcatttggtt tgctattctc 240
 gttgcatgcc tgtatatgca tcgtccggtg tctcctcaaa ttccacttgt actttgtgtg 300
 attttgatc aaactattct ctttttttgg gattcgatta taaaa 345

<210> 50135
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-A1
 <400> 50135

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 cacctgagga agcctacact gtacctcatg gaacgaaggc accatgtgat cgcaaacgca 180
 tgcttcgagc taaacatgtn cggtatcgtc agatgacggc tacggctaaa gcgaggaggg 240
 taccatcttc aggtacgagg acgtgcccag gaacaaccag cacgcgctgg tcataacgct 300
 tgcgcaac 308

<210> 50136
 <211> 523
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3078-053-Q1-K1-A12
 <400> 50136

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 aaccagtttg aatctttgtg ggtgannaaa gtgagccctg cagaatcgcc gggggagaag 120
 cgtggcnct tgtgatctca tccatagngt gaagaaattt ctagtagtcc ccttgggacc 180
 tagtattnng attaagtgcc taccctnngt ttataatcat tcntnntccc agaccacggc 240
 tttgagaatn gctttttgac tttggcttgg cattcanngc ttgtgatnnc agagctgata 300
 gtnntcttcg gtaccttcca tcttcataat cannggatgg nnttgatcaa gtcagaattc 360
 atcttcagat gttccaaga ctgaaaaagg aatttttggc tctgtgtact nattagggaa 420

attctttgag agattagnca cttaaaattc ctttgaatac aatccccctt tctcgatgta 480
cccttctata tataatcgta ttgcttgatt catctacatg ttt 523

<210> 50137
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-A5

<400> 50137

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gcggcctcat ggactacgcc ttctcctaca tcgcacacaa cggcggcctc cacacggagg 120
aggcctaccc gtacctcatg gaggaaggca cctgccagcg cagcagcagc agcgagaaga 180
agtggccggg atcgtcggag gacgccaacg acgatgccgc ggtggtcacc atctccgggt 240
acgaggacgt gccgaggaac aacgagcagg cgctgctcaa agcgtggcg caacagcccg 300
tcagcgtcgc catcgaggcc ttccggcagga acttccagtt ctacagcggc ggcgtcttcg 360
atggggccctg cggcacgcag ctggggccacn gggtagcggc cgtc 404

<210> 50138
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-A8

<400> 50138

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caacgataga gacatcaagt tgtgtgcac c gtgtactctg attcgtatga actatgcatt 120
tgcctatgga caaggaatct gagtatttaa gaactcacgc ctgctgtaca tgtaccatt 180
tatttggett ttctactttc cacacgccgg agcatccac acgcgagatg ctttgtggca 240
tgccttgaat ttgaatatac ttcaagctcc atccacggag acgcttacca tttgttatgt 300
gtgtcatcaa agattagga ctcaatatct tgcaccacat gatcatctat ctcaattctc 360
agggtagagt tatgacccaa cttgac 386

<210> 50139
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-A9

 <400> 50139

 cgggtctcgga attctccggg tcggaccgca cgcgtctcgg ttgggttcta ctatcacgac 60
 gacaatacat ggtggaagct ctgcgaagaa tcggagagtg gggtagtgta cgctcggcag 120
 atcgggtgggg agtctgaggg ctactctcgg acacggcttg atcgagagtg aagagtcacc 180
 ggccgggacat acaagcatgc tgctatcccc ctcgcatcta cctttcatct taaaa 235

<210> 50140
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-C11

 <400> 50140

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 agtcatcgac tctagtcata ccttactgtg atgggctttc ggtctcttac attttatggg 120
 ttgagaatgc ctctgatgtg atatgcaact ggcttgctgc tattaggcat gatgggctgg 180
 ccggggcaaat ggtctacata tgcttctact tctgtggcat atcattcctc atctgtatcg 240
 ctgatagagg catggacctc gtcttagata tactaggtgt gccgacgtgc acggagatgt 300
 agatgagcat gccatattga tcgatatata tttt 334

<210> 50141
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-053-Q1-K1-E1

 <400> 50141

 cggaattccg gtcgaccag cgttcgccag cgtccgcca cgcgtccgcg gcgagctctc 60
 taagaggctc ggtggaacta ccatggggcc atcaggggaa ttgaggagaa gaggaacgag 120

aaggtcaagg ttgcctacga gaggaagaag caattggcca agctgcgtgt caaggccgag 180
aaggcagccg aggagaagtt ggggtctcag ttggagattc ttgccctat caagtactga 240
ggagctgtgc tttgtcatca gttttgggga acatctagtc tttggtttaa gtgttctgta 300
acagtttgtg acagtataat ctggaaaacc gtgttataat tctgccactg ctatttgaac 360
acattttcta gctggagaat gaact 385

<210> 50142

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-E12

<400> 50142

gaaactagca ctgaagagcg agattgttcg cttcagatta aaaatggctg tttagactgg 60
tatagttata atttattgag acaaactatc acagagagtg gcctgctcgc tgatgctcca 120
tccacatggt gatttttggt ttgggtcgtc aaagcttggc cgcctcatcc tcaactttgc 180
attctgaacc tatgttctct tctccaacc acagaaatgc atctctgtat gtatcgat 238

<210> 50143

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G5

<400> 50143

gacggacaca ctcgtataca taactagcca catctaatac gcgcaggcag gctcgggggc 60
tcatgccacc aatggcaagg gatggcgata cgcctcggag cggcaacagc tcaggggttc 120
gcgggaccgg ctgacaagaa gcaatgcgac ggcgtcacgc acgtggtgga tatgaacgat 180
tacagtgatc taaatgggct caccaagggtg aacatgctag gagtgcgcat gaccgtctac 240
ta 242

<210> 50144

<211> 502

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-G6

<400> 50144

taccgggtccg gaattcccg gctcgaatgg tcgaacagta gtttgctcgc tattatccat 60
ggcgacttct acggctgctg ccaactgcact gctcggcccc aggccggcag ttccagccaa 120
gttggcgagcag aggaggtgcc tccatgcggt tgctgggtgg acgacgatga ggaggagggg 180
agctgcaggg gtcgtgcgag ctttcttcaa ccctctcggg gatgagcgca tcctccgaga 240
agccatcaag gagccagtag cattcatggg tgggtgtgtt gctggcctct tgaggcttga 300
cctgaatgag gatcctctca aggaatggat aagtcggaca gtggaggctt ctggaatagc 360
tgaggaaaac agctctgaag aatcaagtga ggcagatcaa aatgatgcac ctacagcaaat 420
tgagattgag tgaggtgcat tgtctacttt tgtccacttg tcacttttcc cttgtaactt 480
atcctgaata tatgtgacac ct 502

<210> 50145

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H1

<400> 50145

gaattaccag ctcgaccac acgtccgctc acgctgccaa gtacgcttgc catcgatgac 60
attatgaaag tatataccgg cgctttgagg ggagactatt atcagcagcg tgggtgtgcta 120
cacctacact tgcataaaaa actggacttg taagagatgg aaaagatcgt agctaactga 180
tcaccagaa gaaggccatc catgagccgg acttgcacaa tcccaagctc gagacgccta 240
atccta 246

<210> 50146

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-053-Q1-K1-H2

<400> 50146

ccggaattcc gggctgaccc acgcgtacgg aaatatgtgc acgtggagtc tgtagctaca 60

ttgaaccctg ggaccatata gaaccctgtc gcagcatgca aataggaggt gtgacctaag 120
aagctaactt cgatcgaca 139

<210> 50147
<211> 323
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-053-Q1-K1-H5

<400> 50147

cttacggacc gtacggcagg gacgaggga ccccgttccg tgtcaagggt atgaacaacg 60
gccacgtcgc tggcttcttt ggccgctctg gagattgcct ggacgcgacg gggctctacg 120
tgaaccccaa ctaataacta aaacgatgga tcggatcacc tgcacgcatg catatgcagt 180
atgcatgctg cttgcctgcc tgtaacgaat atgaatgcat aaaataacgc ccctgctgct 240
cccatgcacg agcagtgtgt accactatgg tatatatata tatattatac tgggaatttcg 300
ctaaccgaat aaaaacatan att 323

<210> 50148
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-A3

<400> 50148

taccggtctc ggaattcgag ccacgcgtcc gtccacgcgt ccgacggacg tcagttttac 60
ataactacta tcaagacaag ctggttggat ggggagcatg ttgtcttcgg cagggatgac 120
caaggaatgg ataccgtgta cgccatagaa gggggcgctg ggacttataa tggcaagcca 180
aggaagaagg cggatgacac cgacgctggt gagataccca aggagaaatg gggatgacag 240
gaagcgtagg gtgttttcta cttcttgta ccttcaaata aggtagccat gtacttcttt 300
tttccttgac ctccatggtg tgccacggtt cagcaagact tccggaatgt tgtatatcgt 360
agctagctta tggccagtcg aattgactct gatcccttga gttgtgatgt ggagacgcac 420
acatctgaaa aatctt 436

<210> 50149
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-A6

 <400> 50149

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 gtctcagatt tgaaggatcc aaacaagaaa ttttaatttta ctagatttga aaggaattgg 120
 tttgagaagt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaaaa 180
 aataaaaaaaaa aaaaaaaaaa ataaaaaaaa aaataaaaaag taaataaaaa aaaaatatat 240
 aaaaaataaa aaactgttga cgaacaatta gaagatagta aaaaaatata attgaaacaa 300
 aaaaaattgg a 311

<210> 50150
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-B1

 <400> 50150

 tacatctttg ccatctgcat aactagccc tgggtgtccga ggttttatcc tagcaacagg 60
 atttgggtgca tcaactgtatt tcctggcaaa gaaaaatatg aacttaggta aggctgcatt 120
 gatcactgtc gggggacttg cagctggtgc aactgtcgga tctgcagtgg aaaatttcct 180
 gcaggttgat atcgtgccct ttctaggcat ccactcccc gccgtcgttg tcagtgaatt 240
 tattctgttc tcccagttgt tggatcact gtttgttagg taggatctga aatcaagctg 300
 tcatcctgat catggcatgt aagtaactga aatgggtcgt gttcaaactt caaagggtca 360
 gggaaatgct tattttccgc tcaagggtgca agcagctgtg tatagc 406

<210> 50151
 <211> 60
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-054-Q1-K1-B12

 <400> 50151

gtttggagac tacgtacgcc tgaagcaata gcaactttgc gagaaaaaga aaaaaaagag 60

<210> 50152
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-B5

<400> 50152

tcccggtcg accacgcgtc cgtgtatcgt gcgcgcacac tttagctttc acccaacggc 60
atcaaattat gggaggccgt gtctttcaag accgaatacg acatctttaa tgattacttg 120
ctttactacc tctggaacct aagcctcatt cacacacaga tcatcattac catctgagcc 180
taacagggtg ttctgatggg atctggtgat cgctaccata atctactttg cccgtatcat 240
gaggtcgtag acccgttcta cctcctgctc agctacgacc cgctcgggct tgatacgacc 300
tgaaggcctt ctctgagctc aaagacaatg agctcaagaa ctgtctactc tccatgatct 360
ccat 364

<210> 50153
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C7

<400> 50153

gaacggcaag acgcacttcg acgccggcga cgagcgcgcc aaggagttct ggggcctgct 60
caagtccaac gaccccgtag gcttcaacct cgtcgacgtc ctgcctggg gctcgctcgg 120
ccacatcgtc gctactaca tctcgccac ctccagcaac ggatacgacc ccaacttctt 180
ctgagcggcc ggctgcgggc atgttcttga gctgctgtg attctactcc gtgtgtgttg 240
agccatatat ctgatgtca aggattgggt aatctgaaca agtggtgcaa ctgcgcgtgt 300
acatggattt gctcttctc taaaaagaaa ct 332

<210> 50154
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-C8

<400> 50154

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ttgcgagtga aagggttgga aatcagggag agggccgaag atgggaactg tcgattcaga 120
gctgttgctg atcaagttta tggagacgca taagcttatg acatggctag gcagatgtgt 180
gttgattata tggaaaggga acgggatcat ttctctcagt tcataactga aattgaaagt 240
tttacattat actgtaagag gaaaaggaga gataaggttt atggcaacaa tgttgagatc 300
caggcatttg cagagatgta caatcgtccc attcacatat attcctacag tacagagccc 360
attaatattt ttcaaggaag ctataacaca gacgttcctt caattagatt aagttaccat 420
catggtaatc attacaattc agtggttgat ccccgactgc agacagttgg ggcag 475

<210> 50155

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-D12

<400> 50155

cagcagttct ctgctggatg tgatgtattc attgttgcaa tcatggccgg gcattggcga 60
cctctatacc tgctacaaaa ctactgcaac gcctataaaa a 101

<210> 50156

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-E3

<400> 50156

cggaattccc gggtcgaccc acgcgtacgg gatcatgaca tgggggagga aggctgtcta 60
tttggccagt ctcacctgat tggcgcgggc aggggtgattt atactttgtg cagagagaga 120
agatatggag tcgacaggaa agattttgat ggagcgcctat gaggtgtaga ggctactggg 180
gaaaggcaca tttggcaagg tgcactaccc agagaatctt gagtccaacg agagtgttgt 240
cattaagatg atggacaagg acaaagtgct caaggccgtg ctttctgagc agataaggcg 300

ggagatcac

309

<210> 50157

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-F6

<400> 50157

tatggaacca gacatttgat ttcattgtag aagatgcact gcatgatttg cgcattggtg 60
aagtatggga ccatgataca ttgggaaagg attacatagg gaggtgcatc ttgacactga 120
cgagagttaa actcgaaggt gaattccaag atacctttgt cttgcaaggt gccaaatcgg 180
gaaaactaaa cttgcatttc aagtggacgc cacagccaat ctatcgtgat cgtgacaggg 240
atcagtgaga cttgtaaacg aaaaaggccg ataaacactt atccccaacg gtgctatgta 300
tattagtcgt tctgtattta caaaatccca cggttcttat agccacgtga ccaaaaagag 360
atcaaccacg cgacctgtat tttctccttt gtgatgcaag tcagcaagtg catggacctg 420
tatatttgag tc 432

<210> 50158

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G10

<400> 50158

gaatatcccg gctcgacgcc acgcgtccgc ggacgcgtgg gcggactcgt gggcgggtttc 60
gtggggccagg acatgcggag agctcgaggg tggtagcgta tgacgctgac taaccaatgg 120
tgctgcgacg tctgacggaa taacagacag gtgacgtgct tgccgactca gacgacgtgc 180
gccaacagga acgagtacct attatgggac gctttccacc ccacagaggg ggtcaacata 240
cttgtcggtc ggagggcgta cagcgcgtcg ctgtcatccg acgtccaccc catggatctg 300
cgcacgctag ccaggatcta gctgtatgga tcatgtaaac tcgctaagag aagcacagct 360
tacagagtct tgctttgcac agtgctttgt atccctcgt gattgtattg cttaccactc 420
gctaattggac gtatgggtccc tacatctaaa ctatttatat aaacatgata 470

<210> 50159
 <211> 471
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G4

<400> 50159

cggaattccc gggtcgaccc acgcgttcgc ccacgcgtcc ggaccacagc cagtcatcca 60
 catcactagc tatctgtgca aaggcagtggt cgtccaaggt tgacctgggtg gtggaggtca 120
 agtccccggc tgacaagctg tgggcggcgc tgcgtgactc gacggagctg ttccccaaaga 180
 tcttccccga gcagtacaag agcatcgaga ccgtcgaggg cgacggcaag tcggccggca 240
 ccgtccgcct tctcaagtac accgaggcgg tgccgatgct gacgttcgcc aaggagaagc 300
 ttgagacggc ggacgacgag aacaaggtgg tgtcgtacag cgtggtggac ggcgagctgg 360
 cggacttcta caagaacttc aagatcacgc tgaaggtgac tccggccaat gcggatggcg 420
 agggcgggcg cgtcgtcagc tgggccatgg agttcgacaa gccaacgacc a 471

<210> 50160
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-G8

<400> 50160

cggacgcgtg ggtgcatccc aaatgtgtga tgtaaactga gacagaacag cagccagatg 60
 aagcagagat ttgctgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaagaa aaaaaagggc gaccagctgt 180
 ataggatcca agcttcata cgaatgcatg ctacactata atattcctat agcactacct 240
 aaactcatgt aataggccga cattaaaaaa ctggtctact ggaaaaacct tgacgggtacc 300
 t 301

<210> 50161
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-054-Q1-K1-H6

<400> 50161

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gttcggatgg ccattcctga aggcctggcg gtcaagggtg aggagaacac aaggatcacc 120
gtgagcggct atgacaagag cgcgatcggc cagtttgctg ctaccataaa gaagtggagg 180
ccacctgagc catacaaggg aaagggtatc agatatatgg atgaagttgt ccgaaggaag 240
gaaggaaaag ccgggaagaa gaaatagaaa gtgttttttt tttgcctttc cttacttca 300
tttcattttt cccactgtaa tgatcttcgt ctgctaaggc tgaacctaa gaaaaatattg 360
ttctgtgctg atcatggcat atagatgtaa aa 392

<210> 50162

<211> 141

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A3

<400> 50162

ccgaattccc ggctcgaccc acgcgtacgc gcaactcgtg tgctaataac tacagatggt 60
tgggcttcaa gacctgacct tcaaccgtgt tgacctggtc ttaaataata acctcccaat 120
taatcttaac cttaacttcc a 141

<210> 50163

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A4

<400> 50163

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atcgtttctg caatataaat gagatgggtg acctacaaaa a 101

<210> 50164

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A5

<400> 50164

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ctcgcgctcg tcatactggg gctctccaac gtcgcgtcca acgtgccgac ggtcctgctg 120
ctgggcgcgc gcgtggcggc gtcggcggcg gccatctccc ccgcggcgga gaccaacgcc 180
tggctcatcc tggcatggac gagcacggag gccgacaacc tctcgctgct gggctccgac 240
gccaacctga tcgtgtgcta gcaggcgcgc cgtctccagc agtacggcta cacgctctac 300
ttcttcagcc acctgcagtt tc 322

<210> 50165

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-A7

<400> 50165

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cccagcagaa gaagcgaagt ggtcggggga gcacgaggaa gagcgagcag caagatgtcg 120
tggcaggcgt acgtcgatga ccacctgctg tgcgacatcg aaggccagca cctgagcgcc 180
gacgccatcg t 191

<210> 50166

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B11

<400> 50166

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acctgcta at gatggtctgg ggtgaatgaa gaggtagatg gaaacagaac agaaggctgg 120
ttgtttgtag tgaacactg aatatggtgt tgagctattc atattcattg gttcaatttt 180
ctccatagca ttctagaata gagtatttga tggttggtga aacttcgctc gcaaaaaaaaa 240
aaagttgttt ggatcc 256

<210> 50167
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B8

<400> 50167

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ggtggtcagg ggcttcgtcg agggctaccg cgtcggcggc ggcccgtcg gggaagggt 120
cgacaagggtg taccctggcg gcgccttcga cccgctgggc ctgcgcgacg acccggacac 180
cgccgcccag ctcaagggtga aggagctcaa gaacggccgc cttgccatgt tctccatgtt 240
cggtctcttc gtgcaggcca tcgtcacccg caagggcccc atcgagaacc tcttcgacca 300
cgtcgcgac cccgtcgcca acaacgcctg ggcatacgcc acgaacttcg tccccggcaa 360
ctaactgact gagcaacgcc gtacatgtgt actaccatca gatccatcca ttcgttcgtc 420
cgtccgtcta gtgaacagtg tggctcttc 448

<210> 50168
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-B9

<400> 50168

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ccacacgtcc gtgtaggagt gcgaatacgc ttagttcagg ccgctggctt gggtgtatgt 120
gcctttgatc agcagctaga atctggtgaa cgagaagtag cttgagaccg acaacggaga 180
tctggccgac aggatatggc cggacttaag gagccgatcg aagccaagta acggctcttc 240
gacggaaatg acattggaca caccaattac gatccataca gcacagtctg ctcaactcaga 300
tgagtaatga ctagatctac ggccacatgc tcatcaatgc tggcatgata ttggagaata 360
atcagacact ggtagagctc cgagttccag tcggagacga ccgagtaggc tgcatta 417

<210> 50169
<211> 373

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-055-Q1-K1-C9

 <400> 50169

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 gggttctaccg cctgctggac ttcccatgg accccgacgg catcaggggg atggcatact 120
 accgcaagtc cgctactacc gccgcttgat tcgtctcgtc tgtcttgatc tcattcatca 180
 atgaaggaag tcgatcgaat tccctaaagc ccccatgtt tgtatgatgt agatatgaca 240
 tgggtttattt ttatcactca tctcatagtt gctcggttat tatctttcat tttatatattcc 300
 gcgaaaacga tctagctaga acatgtactt atatttcgcg caaatcaagc aatataaaaa 360
 cctcacttca aaa 373

<210> 50170
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3078-055-Q1-K1-D3

 <400> 50170

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 ctttttagcat ggcgtctctg gcgttcggca gcaccgtagc ggcgcccggtg gcggcgacct 120
 cggggaggac gcggccggcg cgccgggtccg tgctgggtcgt gccgcccgt gccagcaggg 180
 gcggcccggc gccggccaag gaggagaagg gcctcggcga gaccatcttc ggcttcatct 240
 tcaagaagga ccaactgggtg gagacggacc cgctcctcaa caaggtcggc gccgcgccgg 300
 ccgccgnctc ccgcgccaag acgaccgccg gcaagaaggc tgccggcggc gacgacagcg 360
 gcagcggcgg ggggttcaac ctgggc 386

<210> 50171
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-055-Q1-K1-D7

<400> 50171

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ttgcaatgtt ggaagaaagc aaggagctta catcatcaac aagatggagc aaagcaatac 120
ttatgtttga agatgatgaa agattcaaag cagttgagcg tccaaggag cgtgaagatt 180
tatttgagaa ctatcttgtg gaactgcata agaaggaaaa agccaaggct gctgaagaac 240
acaaaagata tgtagcagag tacagagctt ttctagaatc atgtgacttc atcaaggcaa 300
gcactcagtg gagaaaagtt caggaacgcc tggaggacga tgaacgttat tcccgaactg 360
agaagtttga tcggttggat atttttcaag agtacattcg acacctagag aaagaagagg 420

<210> 50172

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-055-Q1-K1-E4

<400> 50172

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ctgtgtacaa ccctgccaca atgtttggaa ttcatgtcac ttctggcccc atccacctga 120
tgtattcaga gatcccaata gcagtcggtc aggttcggag gtattaccaa ccgaggaaga 180
gccaccggat ggtgactgcg gtcacccacg gcgagaaggt gccgctgtac ggcgccgggg 240
gcagactgat gctgtcgacg agcacgggcg gngcgggtgcc cctgacgctg gactaggacc 300
tgaccttgac gggctacgtg atcggcaagc tcgtgcggtg gacgcacaaa gtgcacgtga 360
cgtgcctcgt cgtcgtggac g 381

<210> 50173

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-F9

<400> 50173

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gtaggtgcc aagcagcacg gagctgagga cacggaacct ccctataagg gcctggaaac 120

ggagatcgct ctcaactgcc agaccgatct caggttccag tactccaccg actgtgttct 180
 gtatgaggcc gtctaagcgt acctcgtggg gctctttgat gacactaacc tgtgcgccat 240
 ccactccaag cgcgtcacca tcatgcctac tgacatccaa ctgcgcacgc gcatcaacgg 300
 agacaaggcc tgaacgatgc gagctcatct cactcaaggc cccgtagttg ctgatgctta 360
 cctgctagca ggacttgtgc tcatcgcggt tacctttgtg ccatcaacga catcttcgtg 420
 ccactgtgct tgctcttaga at 442

<210> 50174

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G1

<400> 50174

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 gatggagcta tctaactaaa ggtaggtat aaggatctag aatctcttct ctgcaacaaa 120
 ggtgatgagg agtactctaa gtgttctgt ggctggaggg cgtttccagt tctggaggaa 180
 gactagttag gctagtgtat aagctttgga gggttcctac cgtcctgctt ttgtaataag 240
 ttatgcattt tgagtatata aggacttgta ataaatgtaa ctcttactat gtgtcaaacy 300
 atttttgttt gatttcaaac ttaccagag tatgttcaag gtaatttggc accaaaa 357

<210> 50175

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G11

<400> 50175

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 ggctactgga aagagcgtga gctgtccaac aaattctgca gcaccaagga ccctgtgcag 120
 cagccattca gtttcagcat tggtcagggt tcagtgatca aaggatggga cgaggagtt 180
 atgaccatgc aagtgggtga agttgctcgt atccagtga cgctgatta tgcttatgga 240
 gccggcgggt tcccagcctg gggaattcaa ccaaactcag tgcttgcgtt cgagattgaa 300

gtactcagtg cccagtaatt cgcattctgtc agctatggaa acgttggcca tgcttctcaa 360
gtaatgaaat aattcccgtg tcacctcatg ctacatacag cagattgggtg t 411

<210> 50176
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-055-Q1-K1-G12

<400> 50176

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tttaggctca aggaggaccg cacagatgga ggccgaacagc ggctgccgga gggaccatcg 120
cccggcggac ggcgttggct ggccgaggcac agtcgacgcg gcaaaggcgg cggcaggcaa 180
ggagcccgtg agccccggca ctccgtcctc ggtggccgcc ggccgcagca gctgtgagga 240
gaggcgcgcg gtggacggcg tcgccctgcc tgggtggaag ctgcagcccc tctgccagga 300
gtcctgcccc tcgccggcca tgagggcgcg ctttccctac tacttctgaa gc 352

<210> 50177
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G8

<400> 50177

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accttccctg gacacaacat cgtcgacagt caccacctac ttctatacct agctgtgcta 120
tcattcttgg tcagtctatc cattgtttgc tcccagttctg gtgattaaaa gtctgcaaat 180
tctgtttgcg gaattggcat gcgatacaaa ttaggcttct ttaagtaaat ccggttgccg 240
gtacacagct gtattaattc acctgtcact gaatggaata ccgagatgca aaaggcacat 300
cactatgcct gactaaaata acacggtgaa ggttcagcct tgctgtgggt gctaaacaaa 360
a 361

<210> 50178

<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-G9

<400> 50178

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tcagttacta cgcccaccta tgtttaacgg tgtagacctc acatgaagtt aaaccagcct 120
ggagtttcat atcccatgca tgatgctgtc cataggtttt caaccacat gcaccatttt 180
gggtgggcta atcatctgga tgaatcatgc ccacctcata tgcaagtttg gaatggacgc 240
agtagtgtgt ttccgggtga accctatatt tacggtagac aagagtggga tcagaataga 300
cctcatggcg gcagcagatg gtgggagctg actggtgata tatccaagg accaaatgat 360
gtgccggatg ctgaacttct gatagctaag aaagatcctt actctgcaat aactgctgta 420
tctgattctg gtggacaaca taatcttcaa cc 452

<210> 50179
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H1

<400> 50179

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aatagtaatg tcacattaca cttggcatag tgtgagagaa agttctaggg ttaccaccaa 120
gcatactttt gcaactttat cattcattgc agaaattttc cttttcctct atgttggcat 180
ggatgcattg gacattgaga agtggaaatt agctagtaac agtcctaata aaccaattgc 240
tttaagtgca attatttttg gcttggttat ggttggaaga gcggcatttg tattcccttt 300
gtcgttttta tccaacctaa gcaaaaagga agcccgcca aagatctcct tcaagcaaca 360
agtaatcata tgggtgggctg gtctcatgac aggagcaatg tcaattgcgc ttgcctatga 420
cacgtttaca gcatctggtc aactgaaat gcgagtcaat gctatcatga tcac 474

<210> 50180
<211> 222
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H11

<400> 50180

aattccccggg tgcacccacg cgtacgccga cgcgtacgcg taagcatgcg cacatttgct 60

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atactactac cgtcctgtcc tgatccagct caccaacatc ctagtcaact gcaagcaatg 180

cttaacccaa gctgactacc ttgaacttaa agatgatcat ca 222

<210> 50181

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-055-Q1-K1-H3

<400> 50181

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ttcgtctgcc gctgcagatg ctccccggac gcgtaccccg tggccacccg gcggctgttc 180

gcctgcctac ttgccaccgc agcagctgtg ggaggtggcg tggccggagg cggacgagaa 240

gccggcgcag tgteccaccag ccagacggca ctcatggcgt gcaagattcc tgagagcgaa 300

ttcaccacgc tgcccaatgg cctcaagtac tacgacatca atgtacgaag tgatgctcaa 360

gctgataaag gatcccatgt tgcggtacat tatgtggcca agtgggaagg catcacattc 420

atgacaagtt ggcattgtct 440

<210> 50182

<211> 99

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-A10

<400> 50182

gaattccccg cccgaccac gcgtgcggat actcactaat aatatgggag tctccttctg 60

ttgcttgcca caatatttag gggcagggtt cactggcta 99

<210> 50183
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3078-056-Q1-K1-B1

<400> 50183

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taccttgata tccgttcctg ttataggtac ttctttggaa gtatcaaata ttgtttacaa 120
aaatgcttag ccctgcttag atcttgtgga tagagggttg cttttgcatt aatgcctagc 180
tcanggggta tcttgaggaa agaaggcttc tacctgcaag aatattntca ttgggagcat 240
ggtgggatct tact 254

<210> 50184
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-B8

<400> 50184

tacacacgta ctatcccagc ttttctttat caatatgtcc gactattttc tttcagggcg 60
gagtacaata tgcgcgactc tcgacacatt acttatgagt aactttacaa atcatagcc 120
agaaccatat cttttctcta tacattgctc aacgcacttt cattgactat acaccaataa 180
tgt 183

<210> 50185
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-D9

<400> 50185

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aggattcaaa aaagcttatg ggggagctat gctccaaaat aaaggtgggt gatagatgtg 120
aagttatgcc tgttgccaaa aggggcactg taaaatttgt tggtagagct caagcccttg 180

gacgtggatt ttaggctgta atgcagtatg atgagccact tgtgaagcat gaccgcatgg 240
 tgaaaggcat ccgcttcttt gagtgccttc aaggatcatgg ggcattcgta aggccacaga 300
 aagtaaaggt tgtcgactta ccggatagag acccttttga agacgacga 349

<210> 50186
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-E1

<400> 50186

tcgcggcgcc actgagccac tcaacgtcga gatcgagacg acccgagtcg gccgcgccccg 60
 tgcaccaccg accgtcgaac tcccgaaggt aactctatctt cttgatcaac atcaacatgt 120
 cgcggggagga taatgtttac atggccaagc tggctgagca agcagaacgg tacgaggaaa 180
 tggttgagta catggag 197

<210> 50187
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3078-056-Q1-K1-G9

<400> 50187

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 gggaaggagc gtgagctgtc caagaaatct tggagcacca aggaccctgg gcagcagcca 120
 ttcagtttca gcattgggtc gggttcagtg atcaaaggat gggacgaggg agttatgacc 180
 atgcaagtgg gtgaagttgc tcgtatccag tgcacgcctg attatgctta tggagccggc 240
 gggttcccag cctggggaat tcaaccaaac tcagtgtctg tgttcgagat tgaagtcctc 300
 agtgcccagt aattcgcatc tgtcagctat ggaaacgttg gccatgcttc tcaagtaatg 360
 aaataattcc gttgtcacct catgctacat acagcagatt ggtgttacga gttaaatect 420
 gtgaaacttt agcattctgt aaccgtggat gtcgagttta t 461

<210> 50188
 <211> 230

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-A10

 <400> 50188

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 cagggaggag agcatgaacg ctctgcactg ggcgctcgac aacctccgcc tgcaccccaa 120
 ctgctagctc gtctgtctgc acgtccagcc gctgtccaac atcgacatgg gactcaaccc 180
 ggcgcccata cccttacgca gcctcattca gttggagggt cctgcattca 230

<210> 50189
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-A11

 <400> 50189

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 cagctggacg tgaaccagac ctactacggg aagctgggag agctccgctg cctgttcgcc 120
 tacgacgtcg ccactctggag tcccgtcacc aggtcttttg caaaggtagc gctgccacag 180
 catcagcttg tcgaggacta ctacctcggg aagcacaggc tgagccacgc gcagagcatg 240
 atcgggatct cagggctgcc acatggcgct catgggagcc ctcgacggat accggattgt 300
 cgacggggcg gttgattagg ctattgagcc ggtg 334

<210> 50190
 <211> 299
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3078-057-Q1-K1-A2

 <400> 50190

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 gcatgcaaga cacacatcag agctcccagt catgtaccaa gaaaactaaa tcccaccgga 120
 taatgggtca cttgagagaa gcagtatgaa gctagtaata atgtgtgagt ccacccactg 180
 tccgcacaat taaatagtcc attcccacct gggacacatg gtttcatcat caaaaccgta 240

tactgtgtgc attgtgctgc gcagaaaact atttcgacgg cctgtctgct ggattgact 299

<210> 50191
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B10

<400> 50191

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gccactgaga cacacgagga actactgtac gacaaggaga aattgcttga gaatggtgat 180
cgctgggaga ctgagattgc tgagaacttg agatctgaga gcctctatcg ctgaatctgt 240
cttccattat gggtgataaa ctgggttctt ccattttcca tattttgctc aactagctga 300
tgaataagca aacgatgtat cataacttag gtacgatgtt tttgtacctt ggcaccatct 360
gtgtgttttg t 371

<210> 50192
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B2

<400> 50192

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gggttctgtc aagaggcttg tccagtcgat gctattgttg aggggcctaa ctttgagttt 120
gccactgaga cacacgagga actactgtac gacaaggaga aattgcttga gaatggtgat 180
cgctgggaga ctgagattgc tgataacttg agatctgaga gcctctatcg ctgaatctgt 240
cttccattat gggtgataaa ctgggttctt gcattttcca tattgtgctc aactagctga 300
tgaataagca aacgatgtat cataacttac gtacgatgtt tttgtacctt ggcaccatc 359

<210> 50193
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-B9

<400> 50193

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catggcatgt ccctacaggt tttgagttat ggggtgtgtc tctatggatg ccaaaaagct 120
cctgcagctg gtcgaagaga agaaaaggag gatcctcgag aagaaagaag cccactaaa 180
gtggcagcag aagcttgaag caccagttaa cgtcaaagct gatgcagaag cgaaggcgaa 240
aaaactaaca tcaagatagc ataggaggag aggagattct tctcggact ctgacagtga 300
ctatgacagc gaatgtgatc ggaaacaccg gaggaagaag gatcgtagaa ggaa 354

<210> 50194

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-C1

<400> 50194

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ggcgcgatct tgctcgtgaa ggtaatgaaa ttatcaaagc agcttgcaaa tggagtgtctg 180
aactagccgc agcttgtgaa atatggaagg agatcaaatt tgatggtttc aaagcgatgg 240
ataccatata aattaaaaaa aaaaaaggac ataaaaac 278

<210> 50195

<211> 226

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3078-057-Q1-K1-E2

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tacattacta catttcaaac ttcatgtcaa agtagaatat atatggacat aagatcacat 120
ggatgttgct ccacactttt tagcacacac agatatacaa cgcanatata cattgattgc 180

cttttctgga ggcaattcac cacacgtgcg ttccttttagt tacccc

226

<210> 50196

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-E5

<400> 50196

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cgggtctcacc tggggccacgg acgaccactc tctgcacaac gccttttagta cctacggcga 120

ggatctcgag tacaagatca tgctcgatcg ggagactcag aggtcccgag ggttacgcta 180

tgtcccccttc tccacggagg aggcgatgcg gaacgccatt aagggcatga acggtaagga 240

gctgtacggc tcgaacatga ccgtgaacga tgcccagtc tgaggcggac gtggatgcgg 300

aagcggcggg tacggtggtg 320

<210> 50197

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3078-057-Q1-K1-F1

<400> 50197

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ggcaacttcg gtttggatcc ttgggg 86

<210> 50198

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G10

<400> 50198

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cagtttactc cccggccgga ccgcgcctcg tgccggcccc tctcggccgc tgccgctctg 180

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 acggcccat gggagtgttt gagttccaga agtttgac 459

<210> 50201
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-D5
 <400> 50201

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 ttgaggctgg agtttcagag catgccagga cccttgggcc aaaaggttct gaccctcaca 120
 aggcggctgt cattgggtgac accattggag atcctctcaa ggacacgtct ggcccttccc 180
 tcaacatcct catcaagctt atggcggttg aatcccttgt cttegcccc ttcttcgccc 240
 cccatgggtg cattctcttc aaatggctct aagccagcga gagacgcagg ataaaggccg 300
 tagttttgca aggcgagtag agcagtatgt cagtaataca gcctctatgg catgtgcttt 360
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<210> 50202
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-D10
 <400> 50202

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 caacagcctg cctctgccac cactggcttt ctaagtagcc gaagctgaac agagaaggta 180
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 tgcgttgtgg aagacagtag ctagtattat gtgttgtaat tgtatgcctt cgattcatgt 360
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atataga

427

<210> 50203
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H12

<400> 50203

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aagagttgct cttcggaatg acagctatat gctccatctg atcctaccaa gcaaagttga 180
tccattggtc aatctcatga aagttgagaa ggttcgggat tctacctatg atatgattgg 240
aggccttgac cagcaaatta aagagatcaa agaggtcatt gagcttccaa tcaaacatcc 300
ggaactgttt gagagccttg gaattgcgca accaaagggt gtccttcttt atggaccttc 360
gggcacaaga aagaca 376

<210> 50204
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D7

<400> 50204

gtcaggaata ttgggaagaa cagcccagtt ctttcctcag tgaatatgct cattgtgggg 60
gaaattcttt cactgaatcc actcctcctg ttagtgctgc gtcacctgat atcttccagc 120
tctccaagat ttctcctgca caaagccctt caatgggctc tggcgagcag gcgttagagc 180
ctaaacatga gtcggcagct tcacctcgtc ctgaaaactt gaggcctgat gcattattct 240
ctgggaacac agccgatcca tccattttca ataatgccat agccatgctc ctgggcaatg 300
gcattgatgc cgagtacaaa cctgttcttg gtgatggaat tgtgctcgat tcttcgtcat 360
ggaacaacat gcaacatgct tttcagatgg cgggattcaa atgagttcca tgcaccttgt 420
t 421

<210> 50205
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B7

<400> 50205

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ccgtccgcac cggcggcaag ggcaccatgc gcaggaagaa gaaggctgta cacaagacgg 120
tcaccacgga cgacaagagg ctgcagggca ctctcaagag agtaggggtc aacaccatcc 180
ctgcaatcga ggaggtgaac atattcaagg acgatctcgt catccagttc ttgaacccca 240
aagtgcgaagc ttccatcgca gcaaacacat ggggtggtcag tggatctcca cagacgaaaa 300
agctacagga tggttctcct gggatcatta accagcttgg ccttgacaac atggagcacc 360
tgaagaggat tgccgaggag atgcagaagc aggtggctgc tgccgtgctg gcagcacagg 420
tcaaggaaga caacg 435

<210> 50206
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E9

<400> 50206

ggccaaatca ggaagatgga ggcgatcttc cccaagaaac acacgagatt gtcaagcctg 60
ttgcagttca ttcccagaat ccaattaatg ttgatgaact cgtgggcatg tcaaagctaa 120
gcatatggga gcatggtcag gagacagtgt ctacttctct gtcgctaaat ctgctagggg 180
gtcaaaatag gcagtcggct ttccatgcaa accctcaaac aagagctcaa gcctgatcat 240
cccctaccag cacagaaact gcattttaga tgggaatcctg ggcaaaataa gctttgctct 300
ttttttcttc ttctaaattt aagatcactg agtcataagg tctactggttc gaagtagctt 360
ctccgtatctt gcggggaaag cctgccctgg gttctctcct tcatcagacc ccaactcatat 420
g 421

<210> 50207
<211> 420

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A1

<400> 50207

atctccgctc cggctgcgct ctgccttgct ttcttgctac ctgttctagc gcgagcgaga 60
gaggtagcgc ggccgatctg gcggcgaggc cggagggctc ggccggggcc ggcaagtcgg 120
cgccgaacat ggggaggggc cgggtcgagc tcaagcggat cgagaacaag atcaaccgcc 180
aggtcacctt cgccaagcgc cgcaacggcc tgctcaagaa ggcgtagcag ctctcggtgc 240
tctgcgacgc cgaggtcgcg ctcacatctt tctccaaccg cggcaagctc tacgagttct 300
ccagcacgca gagcatgcc aaaaacttg aaaagtacca aaaatgcagt ttgcagggc 360
ctgaaacagc actccagaat agagagaatg agcaactgaa aagtagccgc aatgagtacc 420

<210> 50208
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B12

<400> 50208

gcgcaggaag aagaaggcag tccacaagac tacgaccaca gatgataaaa ggcttcggag 60
caccctgaaa agaataggag tgaacaccat tcctggtatt gaagagggtca acatctttaa 120
ggatgatgtt gttattcagt ttgtgaatcc taaagtgcaa gcttcaattg gtgctaatac 180
atgggtggtc agtggaactc cacagacaaa gaagctgcaa gatctgcttc cgtccattat 240
caaccagctc ggacctgaca acctagacaa cctgcgga 278

<210> 50209
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E12

<400> 50209

gccgccgccg cttccctgc gcccgcagcc aagatgaatg ttgaaaagct cgagaagatg 60
gcagggtgctg tgcgcactgg ggggaagggt agcatgcgca ggaagaagaa ggagtcac 120

aagactacga ccacagatga taaaaggctt cagagcaccc tgaaaagaat aggagtgaac 180
accattcctg gtattgaaga ggtcaacatc ttttaaggatg atgttggttat tcagtttgtg 240
aatcctaaag tgcaagcttc aattggtgct aatacatggg tggtcagtgg aactccacag 300
acaaagaagc tgcaagatct gcttccgtcc attatcaacc agctcggccc tgacaaccta 360
gacaacctgc ggaggcttgc ggagcaattc cagaagcagg cccctggtgc ttcagggtgca 420
gaggctggcg ccagcgctgg tgctgctcag gacgatgacg atgac 465

<210> 50210
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-001-Q1-K1-D12
<400> 50210

cccactcgtc cgcccacgcg tccggggagg cggatcagat cgagtggagc aggatccaga 60
cccctactga tgagggtggtg gtgccctact ataccgtcgc gtcgcctccc gaagatctcg 120
aggagactaa gaagctgctg gataagctcg ttgtgctcaa gcttaactga gggctcggga 180
cgaccatggg ctgcactggg cccaagtctg tcattgaagt ccgcaatggg ttcacattcc 240
ttgaccttat tgtgattcaa attgagtccc tgaacaagaa gtatggatgc aatgtccctt 300
tactttctgat gaactctttc aacacccatg atgacacaca gaagattgtt gagaagtatt 360
ccaactccaa catcgaaatt catactttca atcatagcca gtatcctctc attgttaccg 420
aggacttttt gccact 436

<210> 50211
<211> 302
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-A10
<400> 50211

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caggatgtct ctcgtaaca acgagctcct cctccggaca gctcaagccg acttcagaag 120
tttccagaga caatgcaagc tcgagtggca tggcctcaga aaatgggcca gcaggagaaa 180

cctccaagca tacggcgtga cgtctaacag cacgctgcga tcctacttct tagccgcagc 240
cagcatcttt gagccagaca gagcgacaga gcgtctgcga tgggctcgca cggcggtgct 300
cg 302

<210> 50212
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-013-Q1-K1-G8
<400> 50212

cgaacgacct cacgcagatg acctttggct acagcagggg tgatgtgggg aagttgagcc 60
ccatttatct ggctcagggc atcctccagc atgacccctt cgaggttctc gaccagagag 120
gagtgggcca gctgggtaag cttgctacag agagggggccg caaagctagg cctaacttga 180
aggtgggcat ttgtggagaa catgggtggag agccttcctc ggttgctttc ttcgccaaga 240
ctgggctgga ttacgtttct tgctccctt tcagggtccc gatcgctagg ctagctgcag 300
ctcaggtgct tgtctgaggg gctgcctcct cgttggcagc ctgctgttgg tgcattctgg 360
gattaataat actactatga cagagccata tgctctgtga agagtattaa tagcagcgct 420
cataaaaagct acagttccat ctat 444

<210> 50213
<211> 353
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-001-Q1-K1-H3
<400> 50213

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tggagttgga agaacattca caaaagaagt tggtgaggcc atggcttcct tcaatgagag 120
gcctatcctc ttttactgt caaatccaac ctctcattct gaatgtactg ctgaagaagc 180
atataactgg actcagggtc gtgtaattatt tgccagtggc agtccatttg accctgtgga 240
gtacgatggg aaggtttttg tacctggaca gtcgaacaac gcctacattt tccctggatt 300
tggcctcggt cttgttatct ctggagccat ccgtgtccac gaggacatgc ttc 353

<210> 50214
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-A10

 <400> 50214

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 gacggcgaga aagtcctcat tcagtttgag gacttcgcga atcataatgc ttttaatttg 120
 cttgcaaaat atagcaagag ccatcttggtt ttcaatgatg acatccaggg cacagcatca 180
 gtggtccttg caggtttggtt agcagcactc aagggtgggtg gtgggacctt ggcagagcac 240
 acttatttat tccttggtgc tggggagggt ggaactggta ttgcagaact cattgctctt 300
 gagatttcaa aacagacgtc ggctccaatt gaagagtgcc gcaagaagat ttggttggtg 360
 gactcaaagg gtttgattgt tgactctcgt aaaaactccn gtcagtcatt caaaaaacct 420
 tgggcacatg 430

<210> 50215
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-D1

 <400> 50215

cgcgcatcga atcgccacca gtgcgcatte tgctgacccc tcgcatcgc cggcggggcga 60
 atcgacacca tggccgccgc acgcgggggc cgcgccgacg gtgccaacgg cgtcgtccgt 120
 cccgcgcgcc gcgaccgtgt cgtcggcgtc agcggaagca tggcggggcg cgtggccgtc 180
 ctgccttct gtgtcgccgg gatctgggtc gctacatct accagggcgt cctccaggag 240
 actctatcca cgaagcgggt cgggcccggag gcgcgccggt tcgagcacct tgcgttcctc 300
 aacttcgcgc agaatgtcgt atgcttcgtc tggctccttc taatgactaa gttgtggtcg 360
 ggcgggagcg ggagcagctc cgacggccgt gcgccgctat cgaagtactg gggcg 415

<210> 50216

<211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-D10
 <400> 50216

ctccactaca aggggtccac cttccaccgc gtcatccccg agttcatgtg ccagggcggg 60
 gacttcaccc gcggcaacgg caccggcggc gagtccatct acggcgagaa gttccccgac 120
 gagaagtctg tgcgcaagca caccgtcccc ggtgtgctct ccatggccaa cgccggggccc 180
 aacaccaacg gctcccagtt cttcatctgc accgtcgga ccccttggt cgacggcaag 240
 caccgtcgtct tcggccaggt cgtcgagggc atggacgtcg tcaaggccat cgagaagggtg 300
 ggcacccgca acgggtccac cttcaagggtg gtcaaggctg ctgactgcgg acagctctcc 360
 tagatctctc tgatctggtc tgttcggccg acctaccttc gtcacgtcg actccccctg 420
 cgtccgttcc tttggatctg aataagat 448

<210> 50217
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-D11
 <400> 50217

ggtctccaag gacgcgtccg atgatgacct gaagaaagcc taccgcaagg ccgtcatcaa 60
 gaaccacccc gacaagggcg gggatcccgga gaagttcaag gagctagctc aggcttatga 120
 ggtcctcagt gatcctgaaa agcgggagat ttatgatcaa tatggtgagg atgccctcaa 180
 ggaggggaatg ggaggtggtg gagggatgca cgatccctac gacatattgc agacattcta 240
 tgggtggcgga agcccttttg gaggcggtgg catcagtatg tgcacaaggc agcgaatggg 300
 ataagatgtg gttcatctc taaaggctac tctggaggat ttgtacaatg gcacatcaaa 360
 gaagctctct atgtcccgca 380

<210> 50218
 <211> 434
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-D2

<400> 50218

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catcccaatc ctagtcgac tttttccctt cctcaagccg gttccttcgt ccacacgacc 120
gcgcgctcgg aaaactccgc ggagggcgaa ggagggcgaa caagggcgac gtatccgccc 180
ccggagaagg tagccctcga tccgcctgtt cccgcgattc gtttgtcttg cgacagctgg 240
gcgaccgctg tcgcgcgcgc ctttctccag gtgcccaggt cttegcgcgt ccctttgccc 300
cctgcttgcc gacgacgagc accagccaga aaagaagctg aaccatgggg aagagaaagt 360
cagctgctaa gccacctnct aagaagcgga tggacaagct tgacactgtc ttttcctgcc 420
cattctgcaa ccac 434

<210> 50219
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-D3

<400> 50219

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gagtatggga tcttggtggt caaacaagca tcaggccata ctggcgggtgc tactttccaa 120
acaccaggc tatcatatat gttgttgatt caagcgatac agataggctt gtaacagcaa 180
aagaagaatt ccatgccatc cttgaggagg atgaacttaa aggtgcagtt gtccttgtgt 240
atgcaaataa gcaggatctt ccagggtgcac tcgatgatgc tgccattaca gagtcattag 300
aactacacaa aattaagagc cgccaatggg cgattttcaa aacatctgca ataaaaggag 360
aggggctctt cgaagggttg gactggctca gtaacacgct caaatctgga agcagctaag 420
gagcctnctg ctggtcatga atcatttgct ggatg 455

<210> 50220
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D4

<400> 50220

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ggacccagac attagccgct cttgtgctat cacaatggct gtgactctgt gagtatcttt 120
acagttatgc tcgttatacc cctgtgggtg acctgtttcg atcgtcttcg accaaatgtc 180
acgtcgactg cagtctccag ttgttaatac agtctgttca gcacgctgat ttaagtattt 240
gggtcaagat gttcatataa tcctgtggta tccagagata ttatagtttg ttttcgtaac 300
tgtttgcgca gagaccatgc tatgttgctt gcaggctatc agtgtatttg ttctaacaga 360
tcgcaacgct tgtacaacgc attgacctgc cagactgggc cacta 405

<210> 50221

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D5

<400> 50221

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agaggggatca tacgaagcat agcgccaaca agaccaccgg aagctaggcc gcacgcaagc 120
acctgggcac gaaggtggcc aggaagtcgg cgccgacgac cgcacgcacg aacaagcccg 180
acaagtacag gcacaggacc atggccctga ccgagatcct gaagtacaac aagagctccc 240
agctgatcat ccagctgttg atcttgacgc gcctgttcca tgagatcggt cagcacatca 300
atacggattt gcagatgcag atgcacgccc agatggacgt ccaagaagcc gtcgaggaat 360
acctcga 367

<210> 50222

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D7

<400> 50222

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gagtatggta tcttgggtggc caaacaagca tcaggccata ctggcgggtgc tactttccaa 120
acacccaggc tatcatatat gttgttgatt caagcgatac agataggctt gtaacagcaa 180
atgaagaatt ccatgcgac cttgaggagg atgaacttaa aggtgcagtt ggccttgtgt 240
atgcaaataa gcagtatctt tcatgcgcac tctatgatgc tgccattaca gagtcattat 300
aactacacac aatcaagagc cgacaatggg cgattttcaa aacatctgca ataaatggag 360
aggggctctt cgaagggttg gactggctca gttacacgct caaatctgta tcagcttatg 420
agccttcacc tcgtcatgaa tcatttgctg gat 453

<210> 50223
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D8

<400> 50223

ggtggatcca cacacttctt gaccagcaga gaaggtggag ggtggattaa tgctgcaaaa 60
ttctggactg gtgcatcggc catgggaagc cttgctattc cagcaattct gaggcattgt 120
ggcttaatcg agaccggggc catgttcacg gagttcacgt ccttcttcat ccttgatgac 180
acagtgtgtg gcttccatag ggcgactctg gatgaagact ggtaaattgcg catttcaccg 240
acacctgaa ccctagcggg tcttggctgc ttctgtccat gctaagaaat attcctgttg 300
gaagctaaca tggatctgta caaagaagcg tatttcgagc gtagccgtag ctgatgtctt 360
atgtagacac ttgtgaagat tatgtggctc tgtggcaatg cagatgttat taccttcact 420
ttgactttgt cgtcacatgt tctatg 446

<210> 50224
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-D9

<400> 50224

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gatattctatg gttacttatt attgggcatg gagcacgtca tctcaatgga ggagatcctc 120

gggcccttct gggagctgct accaccgtca ggcgcagagc cagagccaga gcgagagcag 180
 cctccggtaa ccggcatcgt cgtcggcagt gtcataagacg ttgctgctgc tggtcacggc 240
 catggtggcg gcgacatgat ggatcagcag caccgcacat agtggacctt tgagaggtta 300
 ctggaagagg aggctctgac gacaagcaca ccgtcgacgg tgggtggtggc gccgaactct 360
 tgttgctcag gcgctctaaa tgttgaccgg ccgtcgggtga tggaagaggc ggtaaatgat 419

<210> 50225

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E10

<400> 50225

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 gggccccggc tcgaattcct cgtcaaaagc gtgcggggag ctaccgcggg gcggctctgc 120
 gccctccgag acgggggatgt tgtggagctc ggcgcgctca cggggaaggg gttccccctc 180
 gacaggataa atccgcccga cgtcgcgcag accgtgctca tcttcgcggc ggggacgggg 240
 atcagtgcga ttcgatcact tatcgagttc ggtttcgctg ccaaagaaag agctgatgtg 300
 aggctttatt atggtgatac aagtctgaaa tctatgtcat accaggaaag gcttagtaac 360
 tgggagtcaa ctggaattaa aataatacca gtcttatcac aaccagatga cagctggaaa 420
 ggtgaacgag gatatgttca ggatgctttc ttcagaaac 459

<210> 50226

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-B2

<400> 50226

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 gggccagcgc caccgtccgt gagtacgtga agaagaacta tggtgacatc aaggctcgca 120
 acccctccct ccccttactt gtccgcgagt gctccgggtga ccagaccag ctctgggcgc 180
 gctacgatat gggtgaggag agatgcgtgt acttgatgg cctgacggaa gcacagattg 240

atcaaaagct ggaggagctt gccaaaggccg gcgagtatct taaaaccaa taggactgag 300
aactctatgc tgccatgtnt aacgtgtgcc aatcaatgat gccatatggg tgagcaattg 360
ctactctatc gttatctgta tttgtgcctg gaattaagtc gttaattggc ttaactgtgt 420
gaaaatgtca ctaatgtctt acttaaaa 448

<210> 50227
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B3

<400> 50227

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gggggttcag aatgggactg acatcagagt aatatgtggc ataccttctg atcctctgta 120
ctcgagagga ttttgttgtg gataagccac ttgctgcctt tgtttggtgg gtaattgctt 180
cgagcataag aaacagcgta tgctgctata aacgtctttt tgcaacgcga aaaaaaaaat 240
accatagaaa aaagaaaaac aaaaaagtga aggcacagaa gagagaatca aagggtgcaa 300
gattttatca ctaaggctat gaagaacat tgcttaagct gatgagaatg aaaactgac 360
atgctggact agttattaat gctgaagaaa gaacgctttc cttgac 406

<210> 50228
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B5

<400> 50228

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ggaataacag aaggacaaat gcttaaattc atgggogcaa acatacactt atctccaaca 120
caagccaaga tactgttgga ggatgagact gctggttttg catatttgaa tcttcaggaa 180
gcatgtccac cattatattc aattattggg ctgagggagc atattaagaa acggccacca 240
ttggctacct ctgagaaagt tcaacaattt gtgagggcac gggggagaga atcaatgggt 300
gcaggatttt atcacgaatg ctatgaagat ccattgctta tgctgatgag aaggagaact 360

gttcatgctg gactagttg

379

<210> 50229

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B6

<400> 50229

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tcagcgacaa ggatagatgc ccacagtgc aggggtgataa agttgtgcag gagaagaagg 120
ttcttgaagt gtttgtggag aaaggcatgc agaatgggca gaagatcaca ttccctggtg 180
aagctgatga agcgctgac actgtcactg gagatatcat ttttgttctc cagcagaagg 240
agcatcccaa gttcaagaga aaggcgatg acctcttcta cgagcacacc ctgaccttga 300
ctgaatctct gtgtggcttc cagtttgttg tgactcactt ggataacagg cagctgctga 360
tcaaatcaaa tccggggcgaa gttgtgaagc ctgattcttt caaggcgatc aacgacgaat 420
gcatgcccac g 431

<210> 50230

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B8

<400> 50230

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gatcgaggcg tccttggact cgaggtttct gagcgggctg aaggacgagc ggggtggaggc 120
ctccaagatc ttccaggggtg actactactc caccggctcg ccgggtggaca aggctcatct 180
gggtggaggac gtgaggcatg cctgtacgc gtccaagatc tgcagctacg cgcagggcac 240
gaacatcatc aaggccaaga gcgcgagaa aggctgttgg ctcaacctcg gcgagctggc 300
catgatctgg aagggcgggt gcattatacg ggccatttta ctggac 346

<210> 50231

<211> 447

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-035-Q1-K1-C11
 <400> 50231

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 gcgggcccaac gcacacataa cacaagctcg tcgtcgatgg cgcggtgggc tgcggtgctg 120
 gcgctggccg cggccacggc catcgccgtg gcgtccgtgg cgggcggcga catgagcgcg 180
 gacaagacgg agtgcgcgga ccagctggtg ggcctggcgc cgtgcctgca gtacgtgcag 240
 gggcaggccc gcgcgcccgc gtccgactgc tgcggcgggc tgcgccaggt gctggggaag 300
 agccccaagt gcctgtgcgt gctcgtcaag gacaaggacg accccaacct gtgcatcaag 360
 atcaacgcca cctcgcgct cgcgtcccc aacgcctgcg gcgccacccg cgccaacgctc 420
 tnccactgcg ctcagctcct gcatatt 447

<210> 50232
 <211> 217
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-C12
 <400> 50232

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 attctatata tacttcagca ccatactcca attaactctc acattataca taccataact 120
 caaaaactca catatactaa tctattatit attaacaata tataatatcc atcatcaaaa 180
 accataacta atctataaac aaattctaaa cctatca 217

<210> 50233
 <211> 402
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-C2
 <400> 50233

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cacactcttc tctgatccgt tctcatccga cgatgatgaa agtggtccac actcttacga 120
 gaactgaaga tagcgtcgga cgcaggcttg caatatgggtg aagacgttct gcttctgagg 180
 ctggcatctt tatattgtag cttctgtaca tatctctctg aacggtcgcc ccccataaga 240
 caaactatta cctctccggt ttactgaaaa ctatgtggct tgtaatctgc tagtgcttgc 300
 tatgttcact tgccctgaat aaatgttatc ctttagcgtg cttaaaaaaa cactcatgga 360
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<210> 50234

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C3

<400> 50234

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 gcctccgata atctacgggtg acgtgagccg ccccaacccc atgaccgttt tctggtcgaa 120
 gacggcacag agcatgacgt ctgcccgaat gaaggggatg ctgactggcc cagtcacaat 180
 cctcaactgg tccttcgtcc ggaatgacca gccgagggtt gagacttgct accagatcgc 240
 tcttgcgata aagaaggaag tcgaggatct tgaggctggt ggtattcagg ttatccaaat 300
 cgacgaggct gcactgagag aagggtgcc gtcgcgaag gctgagcatg cattctactt 360
 ggactgggct gtccactcct tcagaattac caactgcgag atccaggaca ccaccagat 420
 ccaccccac atgtgtact ccaacttcaa cga 453

<210> 50235

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C5

<400> 50235

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 tctgatcaaa gacagcacia aaacatgaaa tataggggga tgaactttat gctgacctgg 180

cctaatacaca attctcaact ggtcctttgt ccttaatgac cagccccga ttgaaacttg 240
 cttcccgatc gcttttgcaa tcaagactgg agaaaaccat cttgatgcct atgttattca 300
 cgttatccaa 310

<210> 50236
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C6

<400> 50236

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 tcgagaacgt gcacaagtac tacaagcgca caaaggaagg ccgcaccggc aggcaggacg 120
 gcaagagcta ccgcttcttc gacgagctgg aggccttgca cgcagccgcg ccgcagccac 180
 agccgccgct acagaagcag cagcagcagt tgccgccagc gagcaccacc gctccaccgt 240
 tgcacgcctt cgccggcgca gtatccgcgc cgccgccgat aagttcaatg ccaccgtcga 300
 cggggccgat gcaaccagcg cccatatcgt cgccggcacc ggccgtgcag gtccagacac 360
 tcgtggagct tgccggggcc caccagcccc tcaacctgct gcaaggcttc agcttctctt 420
 ccatg 425

<210> 50237
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-C7

<400> 50237

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 atcatctacg gggacatgag ccaggagaac ctcatgaccg ttttctggtc caagaccgca 120
 cacatcatca cgttttgccc aatgaacgag atgctgtctg gccattcac aatcctcaac 180
 tggtccttgg tgcggaatga ccagccgacg ttgagactt gctaccagat cactctttct 240
 atcaagaacg aagtctacga tctcgacgct ggtggattc aggttatcca aatcgacgag 300
 gctgcactga gagaagggct gccgatccgc aaggctgagc atgcattcta cttggactgg 360

gctgtccact ccttcagaat taccaactgc gagatccatg acaccacca cattcacacc 420
cacatgtgct actccaactt taacgaca 448

<210> 50238
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-035-Q1-K1-A10
<400> 50238

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tgtgcccgcc aggccatgga gcgtgaggac gccgacggcg ctctcgattc gtggggtcaa 120
ttctgcactc tttccaacga gcttctcgcc ggagacgggtg atctcgccgt cggcccacgc 180
ctagctcccg tcgttggtga cctctgcaca cgcggcctcg ccacgctcgt ccgcgactac 240
tattacgccc tttgcttgca ttgcatcccg tgttagactt gtgctcatgc gcttcactgc 300
atcctgttgt atctggatgg atttgaccaa atgcaaattg ccaacatttt tattaattaa 360
aattgctact gcaatgtctc 380

<210> 50239
<211> 452
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-A2
<400> 50239

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ggaagtacga ggatttcaag aacgcgatgg cggatgatcag gccaaagcttg cagaagagca 120
aatgggacga gcttgagaaa tggaacgagg aatttggttc gagctgacgg cggctcgcac 180
tgctgtgcc tgatgatgat caagcgggtc tatttccatc tgtatatatg atttatgtct 240
cccacgctgt ggctcacaac acaaggggtc acaccatgcg ccattgatg cgtcctcggt 300
gggctaggca gcacaacatc gacagaagca gaatgtaaag gtatacttct ggcaacggcc 360
tatacagcca ttgagggcta gtttgaaaca ccgttcaagg gattttcatt nttcaaaggg 420
aaattagctc attttcccg taaaaatgaa at 452

<210> 50240
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A3

<400> 50240

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atgcattctt gcaagacaaa ctggttatga ccaaactggt acagcaacat cttttgcgcg 120
ccaagcaata gatgaagtct atggatgata agcacccgac tgagtgtgaa tttgctgttg 180
gagatctgaa ggccgtgggt gtgctaacgt cctggatatct ccgttgctgc ctgccactga 240
ctctgcttgg cacattcatg aacagatatt ggagcgacat ctggtcgtcc caaccttcct 300
cgttggcaac atgggaagac ttggaagcac tcaagcacac ctttctcag gctccagctt 360
gggggcaagc tggttctcat ggaagaggga atgtcagtat cccttcatca gtcactggag 420
gtcaggcaga gcatgttcga ggagatgcag ca 452

<210> 50241
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A4

<400> 50241

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gggctacca ggccacccgc ccgccgccc cggcgatctt gggcgcccca ggagggccgc 120
cgatcagctc acctagaatc cggctgaaag acggccggca ccttgccctac agggaggaag 180
gagtgcgcag ggagaacgcc aggttcagga tcgttttcat ccatggcttc tcctccacca 240
aggagagcgg gttccccgtg tcccaggagc ttgtggagca gctgggcata tacatgctct 300
tcttcgacag agccgggtat ggcgacagcg acgccaaccc gaagcgctgc ctcaagagcg 360
acgccacgga cgttcaagag ctcgtcgacg cgctgcagct cggggacagg ttctacgt 418

<210> 50242
<211> 422

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-035-Q1-K1-A5

 <400> 50242

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 gtgcattctt gcaagacaaa ctggttatga ccaaactggt acagcaacat cttttgcgcg 120
 ccaagcaata gatgaagtct atggatgata agcaccgcac tgagtgtgaa tttgctgttg 180
 gagatctgaa ggccgtgggt gtgctaacgt cctggatatct ccgttgctgc ctgccactga 240
 ctctgcttgg cacattcatg aacagatatt ggagcgacat ctggtcgtcc caaccttcct 300
 cgttggcaac atgggaagac ttggaagcac tcaagcacac ctttcctcag gctccagctt 360
 gngggcaagc tggttctcat ggaggaggga atgtcagtat cccttcatca gtcactggag 420
 gt 422

<210> 50243
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-A6

 <400> 50243

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 gatgataagg cgactcgaga agcaacaacg ttcaaagtgt gacgggtgtca acaataatct 120
 gtcaaaattg cgagaagatc ttgaatatgt tagattcttc cctaagaatg agaaatatgt 180
 ctcgctgttc actggaggga acagtcaaga tattgttcaa gagaggaata aatggcgcaa 240
 acagatcaag gagaatctca tggctgctgc agcaaacgga aaagatttag aagagacagc 300
 aagcgacgac gataccttgg atgtgagtga tgatgacttc tttatgtctg gaagttcaag 360
 tgatgaatag gctgatgatg agtggactga caaaagtg 398

<210> 50244
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A8

<400> 50244

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gaggaacggc accgtgtgcc tggcgccaac caaccccagg gacgagttcc agcactgggt 120
gaaggacatg aggcacagca ctagcatcaa ggacgaggaa gggtagccag cgttcgcgct 180
ggtgaacaag gtcaccggcg aagccatcaa gcactcgctg ggacagagcc acccggtacg 240
ccttgtgccc tacaaccccg agtacgttga cgagtcggtg ctgtggacgg agagccgcga 300
cgtcgggcac ggcttccgct gcgtgcgcat ggtgaacaac atctacctca acatggacgc 360
cttcacggc gacaaggacc acggcggcgt ccacgacggc accaccgtcg tcctctggga 420
atgggccaag ggcgacaacc agcgc 445

<210> 50245

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-A9

<400> 50245

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catgtggaag ttccggtccc ttccggcga aagaacgagc ttctgctgaa gctggaggca 120
gcaagcatca acccagtgga ctggaagggtg cagaaaggca tgctgaggcc tttcctgcct 180
cgtaaattac cttttatccc agtgactgat gtggcaggag tcgtggctga tgttggtcca 240
ggaatcaatg ggttccaagc cggagatcaa gttgttgcta tgctcaactc atttaacgga 300
ggtgggcttg cggagtatgc tgtggcatca gaaaatctga ccgtcaagag gcctcctgag 360
gtatctgctg ccgaaggcgc anggctgccc atcgccgncg gcactgccct ccaggcgctc 420
anngaccatc gcgccaagtt cga 443

<210> 50246

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B1

<400> 50246

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tgggtgcaggc gggcatgggc cttacccggg tcgttatcct cgtcggcgcc ggcgttgccg 120
gctccgtcgt cctccgcaac ggccgectcg ccgagatcct cggcgagctc caggagatac 180
tcgacaaggg gaagaagggtg aaggatggag gagggggaga cggggaaacc gatctcaacg 240
aggctcttac ctgcgagggtg cgtcgccttg ccatggaggt ccggcaactt ggtaattcac 300
gttcaataac tgttgtcaat ggaagttctg cacaatcagg agtatcaggc ctgatagtac 360
ctgcagcaac tgtaggagca ctgagttacg gttatatgtg gtggaaggcg atctcgttct 420
cagatctaata gtatgtcacc aagcgcaaca t 451

<210> 50247

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-B11

<400> 50247

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gcttgtactg cgaggacggt gaacgatgtg aacccccacg agtttgtcaa ggcctactcc 120
gccccatctca aacgctccgg caagatggag cttcctgagt gggttgacat tgtgaagact 180
gcgaggttca aggagctccc tccttatgac cctgactggt actacatcag ggctgcatct 240
gtagcaagga agatctactt gagacaaggc attgggtgtg gtggcttcca gaagatttat 300
ggtggccgcc agaggaatgg ctcacgccc cctcacttct gcaagagcag tggtgccatt 360
tcacgcaaca tcctncagca gctgcaggag atgggcatca ttgatgtcga tccc 414

<210> 50248

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A1

<400> 50248

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 ggtttcagcc cctgggacac gccgccggtc gtggcacctc cggcacccga tcccgggtacc 120
 cgagctacgc catcgccgcc ccgcccccg tcaccgccgg tgcgcttcgg ccgacaccag 180
 acgcagctcg tccgccccgt cacgtgcacc tctgcgtgag cactggattg gatagcgttt 240
 gcagtttcgg cggctgggcg caaatcctac cgtgctgct cgcgcacgat gtctcgagcc 300
 cttgggggttc ccctactacg ctccggctgg agttctctat gaaacttggt ctacagtgtc 360
 cttttggtgc atgac 375

<210> 50249

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G11

<400> 50249

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 gatcgtcgcc ggcacgatgg ccagctcgtc gtcgtcgctc tcagctctgg tcgtcctcgt 120
 ggtggttcta gccgcggcgg tggcgtgctc cgcgacgcgc cccgtccccg cgcggcagcg 180
 ggcggcggcg gcggaggagg aggacgtgag gcggccggac acgctgcacg agggcacggt 240
 gctgatcccc gggatggggc gctacgagat cggcagccac tacattccgg acatcggcgg 300
 gctggaccac agcgttcccc gcgccacca cgggcagttc atccccggcg ccgacgacac 360
 ctgggtgccc aacctcggct tcgaggtccc caacccttc cgaccggcg cggccactcc 420
 atgaacact 429

<210> 50250

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G12

<400> 50250

cccacgcgtc cgaaaaaaaa aaaaatatat aaaaaaaaaa aaaaataaaa aaaaaaaaaag 60
 gaaaaataat aagaaaaaaaa tagcctaacc aaaaaaaaaa aaaaataaat aaaaaaaaaat 120

gagtaaatat atatagaaag gtcggctcct ttcattgggtc agacgtttat caacttcggt 180
tctgggggtct tcattcttat ttcgcgcacc ctaatttgag taagttgtcc ccttttaaaa 240
accttgcgta atgtaaaaaa tttgggtacc cctagttttt ccctttaggc acaaatccct 300
tttcttgaat tgcctaatac tttgcacggc ccataaatgt cggcttttta aaa 353

<210> 50251

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G2

<400> 50251

caaaaaaaca aaactacata taaaacttta atttaaaaaa aaccaaaaaac aaaaacgcac 60
gtataatcaa ccacatacca actacaaaca tataactaaa aaaaaaaaaa atcttataaa 120
accctccatc cttcactaaa ccactataaa cacattataa actccaatac tcttcacccc 180
tctcatctca ttccccacat ttcccttcca acccttcc 218

<210> 50252

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G3

<400> 50252

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cggcttggtc tccgtcttct acctggcagc aggtgtgctc gcagttctca agctgccaaa 120
gctgtccaac tcgtaccaat ctgccgggtt ccatggattt ggctgatgct catgccaaa 180
acacccccgt ctgccatgta aaacatcaca ccaacacttg gccccatttt gccattcgtt 240
tacagagaaa tgattctttt ttctctgtac aactacagaa taatgacagt gaaagtagga 300
gtttagggtga gagaaagaga gaggctaggt aggttga 337

<210> 50253

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-G5

<400> 50253

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acatggcttt catgtgggtt atcagcacgt aaagcttctg acaggagccc aaattcacct 120
gcagatgctg aatgggcact gtctattcct atagaagatt tcatatatgt aagttacatc 180
tgcaataatg tctgaactcg tcatgtccca ataggatcta gcgtttttca ttctgtacta 240
tggaacctagc tgcttaggac tgaaattttg ggtgctattg tcctatttat taacattatt 300
ctatgtttct gtattaagtt tatgcttagc ttgaaatttc tggagtctcg aagtagttat 360
aagatgacta gttgcttcag aagtgtcag taagtctgca ggaagtcact 410

<210> 50254

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-G6

<400> 50254

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tcgtacgacc acatggctcg ctggcgaacg tcttcactaa ggagagagaa gaatcttata 120
aagccctcac atcgttcact ggatggctat aagcacattg tgaatgtgga atactgttcg 180
cccgtgtcat cggagggccc acatttcctt tccaaggctg ccagagctaa agaagctgca 240
cagcgatcgc caaaccgaga aaataccgag gagtaccacc aaatgatgga ngaggagatg 300
c 301

<210> 50255

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-G9

<400> 50255

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aggggtgctcg gcagcgtctg cctcgcccttc tccatggccg tcttcgtcgc ccccttgagc 120
 gtcattcttcg ttgtgatcag gacgaagagt gccgagttca tgcccttcac cctctccttc 180
 ttctcaccac tcagcgccgt cgcttggttc ttgtacggcc tcttcaccaa ggacccttac 240
 gtcacgctcc cgaacgtggg cggcttcttc ttcgggtgca tccagatggg gctctactgc 300
 tgctaccgga agcgcaagcc ggcgtccgtg gtcgtcctgc cgacgacgac ggccgncgca 360
 gccgtggcac agcagctgga ggcggagatg gagctgcccc tcgccgncca ccagcaccag 420
 c 421

<210> 50256
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-034-Q1-K1-H1
 <400> 50256

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 tgattatgat actccacata ctgtctgcta tggcagtga cagcatccgg tttcaagtct 120
 tagtagcctc ttatatgctc agggaaaata cgtctatgtt gatggcgacg gatctgttcc 180
 cgcagaatca gcaaaggctg acggatttaa tgcagtggca aggggttgggg tggctgctga 240
 ccaccgggga atcgtgtgca gtcgccgctg gttccggatc gttcagcact ggctgcacgc 300
 tggagaacct gaccggttct acgaccgct gagcgactat gtcatactcc caacactcta 360
 cgaaatcgaa aagcatcgtg agaaacac 388

<210> 50257
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-034-Q1-K1-H10
 <400> 50257

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 actggaaatg caatggaacc acagatcatg tctagaagat tgtcaaaacc ctgaatgaag 120
 gacaggttcc cccttcagat gttgtggaag tcgttgtag cctccttat gtcttccttc 180

ctgtgggtcaa gagccagctg cgccaagagt tccatgttgc tgctcagaac tgctgggtga 240
agaagggagg tgctttcact ggtgaagtca gtgctgagat gctcgtcaac cttgggtgttc 300
cctgggtcat tcttggacac tctgaaagga gagctctgct gggagaaatca aatgaatttg 360
ttggagacaa ggttgcgtat gccctgtctc atggactaaa ggtcattgca tgtgttggtg 420
agacccttga gc 432

<210> 50258

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H12

<400> 50258

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catggctatt gatacaactt tcagacgaag gagctctatg atcttagtta tgggcatgaa 120
ccaccagaag gtcttacaag atttggagat tactttgtga caaaatgtgg tgctccttcta 180
atgtcactct ttgtcttttt cacaaccacc atgtctgttt catttactct gagagaaaca 240
caatcccgca tgcttagatt cacagtgcag cttcaacacc atgcacgcca ccacctgcca 300
acctttcagt tgatattcgt gcatgtcctc gaatcattgg attttgtgcc gattatgatt 360
gggattctct ggtttctatt tgagttctat gatgatcaat tgcttgcgtt tc 412

<210> 50259

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-H6

<400> 50259

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ggaggcgtcg gccatgacgg ggaaggcgaa gccgaagaag cacacggcga aggagatcgc 120
cgcgaagatc gacgcggcga cgacgaaccg gggcggcggc aaggtcgggc aggcggatcg 180
gctagggcag gacaaggggc gggcacgcga agctggcgtg cccgctctgc cgcaccccg 240
cgcccacat caagtccatg cagatccacc acgaggcgcg ccatcccaag ctccctttcg 300

agccggagaa gctcgtcaac ctgcactcct ncacccccgc cgccgccgag gccaccacct 360
ccaagcccaa gcccgngtc cgcggcagcc tcaagaagta gctggctggc ttgcctgcct 420
gactgcctgg ggtaatt 437

<210> 50260
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-H7
<400> 50260

aaaaaaaaa aaaacaaaaa aaaaaaatTT ataaaaaaaaa aaaaaaagac aaaaagagta 60
ggtacaaaca taaaaacatg ggcgattatt gcaaatcctc ccattctttc tggctactga 120
cttgcactta atatgtcttt tcatacacca caatccattc aatttactcg ccttggtaca 180
ccaacctgtt tggtcagaac acggtgttgc tcaccaactt ggtctgcttg ctcttcc 237

<210> 50261
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-G10
<400> 50261

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ccccggttac ctagcccggg ccctgctacg cccatggcct cccgccgccg cacgatgagc 120
acctctccgg ccgcgtccgc cgccgagtcg gctgcgccga ctattgcctc cgtcgtcgag 180
gccttgaggg cgacggacac gttggtggtc gacgagaggg tcgcctcaca cgaggacccg 240
gtcctagtag aggcgctcga caaccctcgc caccggctca tggctctacg ggtggaactg 300
gagataccaa actctatgca caaccctcag ctgcaggagt tcgaattcca gaactgtccg 360
acttgttacc tacgctgtgc tggtcacgtg gttgcacaac attatggctt agagactata 420
g 421

<210> 50262
<211> 365

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-E4

 <400> 50262

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 ggccccctgat gatcttgaca cgagacttct cctgtcaatg atcaccaagg gattgattga 120
 accaatctcc agcgtttttg tcaatctggt aaatgccgac ttcaccgcaa agcagagggg 180
 agttcgcatac acggaggata ggatcctgct gtacggctca cctgaaacac ctatcgacta 240
 cattcaagtt cagattgcca atgtcgagtc caaatttccc agtgcgatat ctgagactgt 300
 gagaaatcac tgtggagggc ataatgaagg atggtgttcc tcatctaaca aaagttggag 360
 cattc 365

<210> 50263
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-034-Q1-K1-E5

 <400> 50263

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 gtctagcagc agccaccggc gcctcatcct cgcagccgcc gtctgtctct cctgtctcgc 120
 ggctgccagc gccagcgccg ggacctctg cgtgcggggg tgggccatcc cgcacaacct 180
 gctcccgagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccgggcccgg acgcgcagct 360
 ggagggccgc ctagaggacc tgccgggctg cccgcgggag gtgcagaggg gattcgccgn 420
 caccctcgtc acggaggccg 440

<210> 50264
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-E6

<400> 50264

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gactcgcaca gatcgggtgag cgagcaagcg agagatggct gggaggctaa ccgcggcagg 120
gtcccgcatc ctgggcggcg gcggcgcaag cgcgcgggct tccgccctcc gacaccgcgc 180
cgccatgggc ctacccgtcg gccgtcacat cgtccccgac aagccccctcc ccgtgaacga 240
cgagttggta tgggataacg gcaagccctt cccggaacct tgcacgacc gccttgcccc 300
gcacatcggc aagtacgagg cgttggcggt gctgtgcgga gggctagggt tcttcgctgc 360
cctcggtatg gctgctgttg tgaacgacaa ggctncaat ataccatata c 411

<210> 50265
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E7

<400> 50265

cccacgcgtc cgcccacgcg tccgaccaga agctgactgt gtgatagatg gacggaacga 60
cgttcgaaga cgaccgcag gacacgttcg agcaagaggg tgatgaagaa gactttgcag 120
atgatgtcga tgagaactaa gtctaacgat gcaccagtca ctttcctatg gaagagtgtc 180
catgtttaat tctattgtac tttgatgatg atacttttta agacactatt gtctaaatga 240
tgtaataaag ttactctact ctctttacgc cttt 274

<210> 50266
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-E8

<400> 50266

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caaacggggc cctgggtgcaa ggaaaggaaa gaaagagaag aatgaaaggc aacattctga 120

gaaggctccg aacaggcatg aagagatgcg tgacctgttc caaaatgata tgagtgaatg 180
gaaacagggg cgctcctcaa agaaaaataa caaatTTGCG cccaaaaaat caaggaactc 240
ttttaagagc aaagcaaggt acaagcggaa gtagaagact cggccatctc cgggtttata 300
ttacattccc ttgtttcaat tttgactgac tgatcctgaa gaaatatctg ggatccagat 360
gtttgcagtt aattcaagtt tgctttaaac atattctcat atcatgtatt gaaactcacc 420
gttttcaaaa naaaaa 436

<210> 50267

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E9

<400> 50267

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tggtatgctgt ggagtctgct aaagcttatg ggaatgacaa tttcaagaaa caggactaca 120
aggcagctct cagaaagtac aggaaagctc tgcgctactt ggatctttgc tgggagaaag 180
aagagataga tgaagataag agcacagcac tgcggaagac caagtcaata atactcacta 240
atagctccgc atgcaaatta aagttaggag attcaagtgg ggctttatta gacgcagatt 300
ttgcactgcg tgaaaggag ggaaatgcta aagctttttt ccgacaagga caggcacaca 360
ttgcacttaa tgacattgat gcagccgtgg agagctttaa acaggcattg gagtggagcc 420
aatgatgct g 431

<210> 50268

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F10

<400> 50268

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ttatgtactg agagagagag agaaagatgt cagttgtagc tcatcatcta cacaaccagt 120
ctggtattct ggcgtgggta ccgaacgatg tgttaaagat cttctgactg tctgacgaga 180

actactgcct gtgcgttcga gacagtgcct tagcgctgga cgcagtcaa 229

<210> 50269

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F11

<400> 50269

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gcctctgctt acgcaatgcg ggctctcgtc gaggaggccg gcacgctcct ggcgcgaggagc 120

gactcagccg gccgccgtcg tcgctccccg ccgacggtgc agaccgcgtc cccgaggccc 180

ggtagcctca ggcgccagtc gtcgctgata cgcgaggaca tctggcacgc cgactgagag 240

acttaccttg tatcgcgctt caccttcacc ctactgcagt acctcggtt aggtcaccga 300

tggatgtcac aactgctttc actcacaatc tatgcaattg gacttatgcc aggatttata 360

caaattggat attactattg attttcgagc caagtgcgta gaagtgtagt ctatggagac 420

caac 424

<210> 50270

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F12

<400> 50270

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actctttggg acatacatat acatatgtgc aaactataca taccgagaat cctactccca 180

gttcaatgac tcgccagtaa tttcagcatc gatatacatc tggtagcact cattctaaat 240

ttaactcgtc ttatgcgtca ccttaacttt actgctatag ctat 284

<210> 50271

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F2

<400> 50271

aaaaaaaaa aaaaaaaaaa aaaaaaatta aataaaaaaaaa aaaaaaaaaa aaaaaaaaag 60

aatggaaaaa tataatatat tgtaaaataa aaaataataa aatataaaaa aaatta 116

<210> 50272

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-F3

<400> 50272

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aagaaaaaac aaaacaaaaa aggggtggtga ggaacctggt aaggcttggt tttgtcgaaa 120

taccgtggga gaggggggtga taaggacggt ggggtttcta tgttgaagtc gtggatcatgg 180

acaatttgtg attttttctc ctttatgcc a tgttttgga tttttgtagc tgcctaggcc 240

ttgtggtaat gtgctgctgt gggggttcat tagtatgaag aggaagacgc tgctggcgct 300

gagtctttct ctttattagt attttgttta aaactatgta tgaccgaatg gtgggtattta 360

attgtgtcat ncttgactct tattctgctg caaccagatg tatcgtgcc a tg 412

<210> 50273

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F4

<400> 50273

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cctcaatgct cacaagctcc tatagcttcc cttcttcccc cataccttcc atcaattata 180

gcttcaatat gtgaaaaccc agctcttcaa ccatataggc ttcaacaagc aatcgcagca 240

agcaacatac ctttatcgcc ctgtgtgttt caacaatcgc cagccctatc tttggtgcag 300

tcattggtac aaaccatcag ggcacaacag ctgcagcaac tcgtgctacc tctgatcaac 360

caagtagctc tggcaaacct ttcttctac tctcagcaac aacaatttct tccattcaac 420
caactgtcta cac 433

<210> 50274
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F5

<400> 50274

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agccaagat tgttgcttca gttcagaact tcagtgttgt gtctgtggac gaggctcaaa 120
tttctgctaa cctcatcaaa catgggccat tggcaatcgg catcaatgct gcctacatgc 180
agacatacat cggaggcgtg tcatgccccat acatctgtgg caggcacctt gaccatgggtg 240
ttctccttgt tggatatggt gcttctgggt tcgcccccat tcgcctgaag gacaagcctt 300
actggatcat caagaactcg tggggcgaga actgggggga gaacggatac tacaagatat 360
gcaggggttc caacgttcgc aacaagtgcg gcgtcgattc catgggtctct accgtgtccg 420
cagtccacgc c 431

<210> 50275
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F6

<400> 50275

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atgattttga ttttgttact ggggagaatg tgcagaaaag caagattttc ttcattgcct 120
ggtccccatc gacatccgcg atacgtgcta agatgctgta ctccacgtcg aaggaccgca 180
tcaagtacga gcttgacggg ttccactacg aaatccaggc gaccgaccca tcggaggtgg 240
acatcgaggt tctccgggag cgggctcact gaagctgggt ctctttttga agggacctgt 300
ggagggccgt gaaccttcag ccagatgcaa attcaattat caacgatgaa gctcccgccg 360
tggtgtttgt taataagttc ctgtaagcat atcatttagt cgctatgcat gacactagct 420

gaagcgctat ctaagct

437

<210> 50276

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F7

<400> 50276

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tgtgtcatat ctgcaatcgc tactcacaac actctattta aaagcacgag catcttgata 120
ttcttgtaga catcaacgtc tagggtagat ccttatacta tgtacttcat ctcccatcac 180
catattagat ccaaccttta cgtctactac tgctataaaa actcgaccaa tttctatgtt 240
gctaatatct ctgatatcag gtcgcgctct gaatcaaact ccaattcctt atatttgac 300
ttattgtggg tgcgcaatct tc 322

<210> 50277

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-F8

<400> 50277

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cagttggagt aacttacgcc tgaccgctga gagttgctat gcagctacag gtgcattcag 120
ctcagctccg gggcgaagcc aggaattaca tgtagggagg ccggccgaaa gagccatctt 180
gtaaaaaaat gatcgcggtt caactgggtt ggttactcgc acttagcgtc tgtctgagtt 240
aatacttgac aaaaaaaaaa aaaacaagca cagctcaact ggtagggtt ctcgtagtagg 300
tggtggtcgt ttgggttaat tcatcgactt gacacgggtg ctcctatttt attttctata 360
tgtattctag atagttaggg tttattggat tttgatcgta gacgctaata agaacctcta 420
ctgaatggat gccttcg 437

<210> 50278

<211> 434

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-F9

 <400> 50278

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 aagggtgctga agaagtgtgt caagctgccg gttctagctc atcatctagt aaaagagtct 120
 ggcatctctgt tgtgggttatt gtctgttatt tcagtcgcta gcgaagtgtc tgacggttct 180
 gaaagctcct gttctagagt aactgagtta gcggtggagg tagtcaatgg ttcgatataca 240
 tcaagattga tcacagattg gctccaagaa accgcccttg agcagctctc aacaatatca 300
 tcataccttt ctgttctaata taacaatgcc aaattattga aaggaaatgt tcatttggtg 360
 acttcagctc taagtgtgat tacatcaaca atgagggtgt ctatgacaag gaagatatatac 420
 caaccacatt ttac 434

<210> 50279
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-E3

 <400> 50279

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 aactacgaag atgtcacaag agatggccag gacaatcttc acgatgacag aatgggagga 120
 agtggttcctg ctgctgtatc aagggtgccc tctccttcag ttcttgcaac aactgttcct 180
 gcagtacagg tgaatggggg tcatgacagc actgttgaag atgtacctgc accaccaact 240
 gctcatgccg agcctaattg atttgatgag ttgatccac gtggatctgt accagattct 300
 tccccctctg taaaccctgc atcagtagcg aatagcttgg agatggattt ggttgatca 360
 gatcctaata gttcgttggc ttggtgtct gtgccttcac caacgactac 410

<210> 50280
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-C8

<400> 50280

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tcagccttct gccactggaa tgatcagcag agaacttatt gctgatccag acccaccat 120
acttccatca tcttcaagcc tgaaatcggt gacccagac tctattgaag gaaaatctac 180
acttcaccac tatattaagg tcttccatga gtactatgtg gactacggac acaagggtgtt 240
cattgaactc aaggagcatg cggactatct gaagacagaa atggaagata aacagaaacg 300
cttggaaagca gtgaagaaat cacttatatc cgtagaagcc aaagatggag acatcaacaa 360
gaggatagat cgggccttca aggtgtatga actgttggag aagcgaatag atagcttcaa 420
gatgct 426

<210> 50281

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C9

<400> 50281

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tgccacaagg gctggggaac ctccgtcatc gtcggcgctc cgcctctgg ccaggagatc 120
gccacacgac cattccagct cgtgactggg cgtgtctgga agggaaccgc tttcgggtggc 180
ttcaagagcc ggaccaggt cccatggctt gttgacaagt acatgaaaaa ggaaattaag 240
gtggacgagt acattacgca caacatgaac ctggctgaca tcaacgacgc cttccacctg 300
ctgcacgaag gtggctgtct gcgttgtgtg ctggcaatgc agatttgaaa ttcctaagct 360
aagcagtttt tgttttggaa ctagaactcc tttttgctc gttaggcctg gacccgctgt 420
ataatgctat g 431

<210> 50282

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D1

<400> 50282

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caagccaatt ccgggggact ggaatggcgc tgggtgcacac accaactaca gcaccaagtc 120

gatgaggagc gacggcgggt acgaggtgat caagaaggcg atcggcaagc tgggcctccg 180

gcaccgggag cacatcgccg cgtacgggga cggcaacgag cgccgtctca ccggccgcca 240

cgagaccgcc gacatcaaca ccttcgtctg gggcgctcgc aaccgcgng cgtcngtgcg 300

ggtggggccg cgacaccgag 320

<210> 50283

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D10

<400> 50283

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gctaagtgcg ggacagacgg gaatttttct gagggtgaaa tgggtgcctt tggacctata 120

gcgtgagtc catcttctgg agtcctaaat tatggacagg gattgtttga gggcctaaag 180

gcgtataaga aaactgatgg atccatccta ttatttcgcc cagaggaaaa tgctgagagg 240

atgcggacag gtgctgagag gatgtgcatg cctgcaccct ctgtcgagca gtttattgat 300

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ctgtatatta ggcccttact tatgggaagt ggggctgntc ttggtctt 408

<210> 50284

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-D2

<400> 50284

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tgaacaatat ggttatccaa aagctgaatc tgagaggtgg gtttcctgca ttaggatctt 120

ggatccaagg agtagggaca caacctgtct gctggaattg caggacaatg aggctgctgt 180
cagtatctgc actgtgaatt tccatgataa ggagcatgga actctactgg ctattggcac 240
tgccaaaggt ttgcagttct ggccaaggag gacccttgct ggtggattca tccacgtata 300
taagtttgtg gatgaaggga ggtcacttga acttctacac aagacacagg tggaggaagt 360
acctcttgca ttgtgccaat tccaggggag attacttgcn aggtgttggt cagtgtcag 420
actatatg 428

<210> 50285
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-D3

<400> 50285
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cgtgcgcccc aaaccacccc gcctcgccgt ccccgagggc cgcagcctgc tctcggtcc 120
cgccgcccgc taccgctcc tgccgctgcg gtgttgctgc acctcggtt cgccttaact 180
tccacaatcc tcgcccctc ggtgctccgc cggccctccc tttgtactcg cgctggagct 240
gcagatccac cgcgacctgg cgaccaattc ctctcccgc tgaagaattg gcgaccttgg 300
cctccgcccc cgcgggcgcg aggagtcaac tgtggtagca accaccgagg aggtgc 357

<210> 50286
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-D4

<400> 50286
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ctggtgggga agtttcgctc tcgcccgggt cgacggccta gggttcgagg aacgtccgtc 120
cgtccgtccg gggaaggagc ggtagggagg cggagatgat cgaggtggtg ctcaacgacc 180
gcctggggaa gaaggcgcg gtcaagtgc acgaggacga caccatcggc gacctcaaga 240
agctggtggc ggcgagact gggacgcgcc ccgagaagat ccgcatccag aagtgggtaca 300

acatctacaa ggaccacatc accctcaagg actacgaggt ccacgacggc atgggcctcg 360
agctctacta caactgagcc gncgnccctc tctccctctc gtcaggggtgg tctgaattct 420
gaagtcatg 429

<210> 50287
<211> 146
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-D5
<400> 50287

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gccgaaaccg aatataatcg actagcagca caccatctt tcttcccaac acttaatcac 120
caaaaatcgc caacggaacg cccttt 146

<210> 50288
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-D6
<400> 50288

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aacgatggta ctgagtggag gcagcgtatt cagtctgagg cagaacattt tgtcgatggt 180
tctgccatga cttccgataa tatcgccaag cttatcaatc aagacaaaat acaaattttg 240
ataaatctta atggctacac aaaggggtgcc aggaacgaaa tttttgcaat gcagccagca 300
cctatccaag tttcgtacat ggggttccct ggaacaacgg gtgctgcata catagattac 360
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gtccat 426

<210> 50289
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-D7

<400> 50289

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ggctccctaa acccaccgcg ctgaccgtcc cccatgcctc aaccttctct cggcttccgt 120
caacatctac ctactccttc gtcttctctg tttcatcacc tatcattcca cttaaactttc 180
acaattctca tcattctcgt acttctccac cccttccttt atactca 227

<210> 50290

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-D8

<400> 50290

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acatttaaac acttggttaga gtcactctat cctacatgga accaattcaa acaataacaa 180
ttgagagcgg agcagctccg tcccaccatg cttcagtacc aaacactatc taagtaaadc 240
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gtgcaattga tccttcagca tgctaataag caatgtgctt tcttaggagt ttgagtaaag 360
cagtcaattt tattc 375

<210> 50291

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E10

<400> 50291

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gccgagtggc aactcagccc ccctgctgga ttcaagcaca aggactccga taacctacaa 180
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ccagcgccaa tgcateccaca catctacagc aacgggcaca tctgcttaga cattgtgcat 360
gactcgtggt ctacagcgat gaccgcgagc tctgcctgta tcagtatcct gtctatgttc 420
gctaattcgc cagcaaaa 438

<210> 50292
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E11

<400> 50292

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gggttcaatc cttacaaaaa tgctgtaaac gattatctat cgctatctag gtg 113

<210> 50293
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C7

<400> 50293

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acttccatca tcttcaagcc tgaaatcggt gaccccagac tctattgaag gaaaatctac 180
acttcaccac tatattaagg tcttccatga gtactatgtg gactacggac acaaggtgtt 240
cattgaactc aaggagcatg cgactatctt gaagacagaa atggaagata aacagaaacg 300
cttgaagca gtgaagaaat cacttatatc cgtagaagcc aaagatggag acatcaacaa 360
gaggatagat cgggccttca ggtgtatgaa ctgttgagaa agcgaataga tagcttcaag 420
atgc 424

<210> 50294
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E12

<400> 50294

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ggtggtggta gcggtggcgg tggaggcggg ggttacggag gaccaggcta tgggtccgga 180
tcagggtatg gtgagggcgg tggcagcgga ggtgctgctg gagggtatgg acatggtggg 240
ggcggcgggc gcggtggtgg tgagggtgcg ggagctgggt gctctgggta tgggtccggg 300
caaggatctg gctacggagc tggcagcaat gctgccggtg gatatgggag tggcgg 356

<210> 50295

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E2

<400> 50295

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acagaaatac tgtattgata tggacggcac gccggaggca gtgacaccaa tggattaata 120
cttgcaatat ttctctg 137

<210> 50296

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B12

<400> 50296

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gtaacccaaa ccaagaatag ttgaaacggc aggcgctgta aactatctaa actcactaac 180
tcttgcatgc aacctgatag ctatgggtata tggtcagctc acattcaaac actggccgta 240
tcacataaac gtcaagactg gtaaaacctt aaattgacct cactaaagcg tactggaata 300
catacacctt tagaaaggtt tcattaaaac ttacaagtat agaccgatca atctgcacaa 360

cagatgctc

369

<210> 50297

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B5

<400> 50297

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gacaatccat gttccatctg gggagaagct tgcagttttt gatgctgcta tgaaatacaa 180
gaatgaaggg catgacacta ttatcctggc tggtgccgag tacgggagtg gaagctctcg 240
ggattgggct gcaaagggcc caatgctgca gggagtgaag gctgtgatag caaagagctt 300
cgagaggatt caccgcagca atcttgctgg catgggaatc atccctctat gctacaaagc 360
aggggaggat gcagacaccc tgggcctaac cggccatgag cgctacacgg tccaccttcc 420
aaccaatgtg agtgagatca a 441

<210> 50298

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B6

<400> 50298

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aagccactat gatgaattga acatatcttc taccagacaa aatcctggaa agctgttgat 180
taccatgttt cattacgctg taactacctt catgtcattt cctggatctt gcgaatcatg 240
gattttccct acaataatgc aaccggttgc actggcaact attcctgaaa caaaaagctt 300
aaagaggatt caaccgaaca aatcttgctg gcatgggagt catccgttta tgctac 356

<210> 50299

<211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-B7

 <400> 50299

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 acagacagag tgtcagtatt atctgaagac cggaacatgc aagtttggtc ctacatgcaa 120
 atttcaccat cccagggaaa aggccggaat tgcagggagg gtgcagctaa acacattagg 180
 atatccactt ctcccggttt gtattatctt gccagttaca tgcctcttc tacatatgtc 240
 tgtttgtttt gctgaaaagg agtctacttt actttttag aatgaaaagg agtgtgcgta 300
 ttatttaaaa acaggacaat gtaaataatgc aaatacttgt aaattccacc acccagaact 360
 tttcaatgtg gtgccttcgt cacgtggttc acctatttat acttctgtac attcctctgc 420
 aagcgtcgtt ccacagtcac 440

<210> 50300
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-034-Q1-K1-B9

 <400> 50300

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 ctgctggaag tggcggcctt cgcgctcgtc gtcgccgtca cgctcttcgc cgtccgcgag 120
 cccacccgag tcaagttcct cggcagcgtc tgccctgcct tctccatggc cgtcttcgtc 180
 gcgccgtca gcatcatcgt caaggtggtc aagaccaaga gcgtcgagtt cctgcccac 240
 agcctctcct tctgcctcac gtcagcgcc gtcgcctggg tctgctacgg cctcttcacc 300
 aaggaccctt ttgtcatgta cccaacgtc ggcggttct tcttcagctg cgtccagatg 360
 ggcctctact tctggtaccg caagccccgc ccggcggcca agaacaacgc cgtgctgccg 420
 acgacca 427

<210> 50301
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C1

<400> 50301

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ccgcactgtc atgagcaagt cacctaacaa gcacaaccgt ctgtacatgg aagcgcgccc 120
cctggaggag ggtcttgtctg aggcaattga tgatggccgc attggcccac gtgatgatcc 180
taaggtgctc tcccagatcc tctctcaaga gtttgggtgg gacaaggatc ttgccaagaa 240
gatttgggtgc ttccggacctg agaccaccgg cccaacatg gttgttgata tgtgcaaggg 300
agtgcagtat ctcaatgaaa tcaaagattc tgttgtggct tgtttccagt gggcatcgaa 360
aggaggtgca ct 372

<210> 50302

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C10

<400> 50302

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aatcattcat ttacttagct ggttatcagc ttcttttctc ttcttggaag cgctccctta 180
ttcctgggtat atttgggtctg gttgctgggt ctctctatcg tctaaatgtg ctccggcatcc 240
gcaagatgaa gcttacacag gttatttcat ctttttttgc aagatatctc gcccctttcc 300
caggaagcac atctcgcccc tccaggagtc ttgttggaac cacaccgtcc catagaggcc 360
gtgctgttca gaatcagcca tcaactggat ttgcacctat cgtggaacc 409

<210> 50303

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C11

<400> 50303

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tgtctcttga cattccgata acatcacgat ctccgtatctt ttcgtctgaa tcccagagac 120
 caataatcga tcatcttagc tggttactag ctgcttctat aatgtaacaa gcgctacctt 180
 attcatgagc catacccact gattactggg tgtatctatg acataaatgt agctacacat 240
 ccgcaacatg tacattacac acaatatgaa cttatctgac gtaagatact ccttccattt 300
 gctatgaaac acatgttgcc cctgcaggat tcttgctgta cacac 345

<210> 50304

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C2

<400> 50304

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 ccagaaatct cgtgtgtcaa atgattgcc a tgtgaaactt aaaattaagt cttttaaaagc 180
 gcctgaactt cttgatgaaa ctctagaaaag tgcaactgtt gactcactaa tgaaaactgt 240
 tatcgaggca ctgactgcta ttatcagagg tgggtctccat gttggtgatc ttcaccatgg 300
 aaagcaagtt atagatgata ataaaacgtc gattcaggct ggtatcgatc aggaagatat 360
 gctggac 367

<210> 50305

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-C3

<400> 50305

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 agcaaacctt gctgcctact ctgagcaaca gcagtttctt acattcaacc aactagctgc 180
 attgaactct gcttcttatt tgcaacaaca acaactacca ttcagccagc tacctgctgc 240

ctacccccag caattttcttc cattcaacca actggcagca ttgaactctc ctgcttattt 300
acagcagcaa caactactac cattcagcca gctagctggg gtgagccctg ctaccttctt 360
gatacaacca catttggtgc cgttctacca gcacgctgcg cctaacgctg gcacnctctt 420
acaact 426

<210> 50306
<211> 358
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-B1
<400> 50306

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aagaagctgg aaatcgatga cgaccagaag ctgctgcct tttatgaccg aaggatatcc 180
caggaggtea gtggtgatgc tctgggtgag gagttcaagg gttatgtctt caagatcatg 240
ggtggatgtg acaagcaagg cttcccaatg aagcaaggag ttttgacttc tggctgtgtt 300
cgtcttctgc tccatagggg gactccctgc ttccgtggtt atggcaagcg taatggtg 358

<210> 50307
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 50307

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tgggagatgc aaagtggagc acgctgcgcc actcaacatc gagatccgct tcttgggtcg 180
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agtggccgct ggagaccgt cgacggggag cccccaaga ccctctatca gctccaccga 300
tgccatgaga gcgcaagaag gctgaccccc tatggctgcg aatagggcca tgggtgctgc 360
tggcactcga gcaagccgac gccgactatg accatgtnc ccatgagtaa cagactggtg 420

acta

424

<210> 50308

<211> 387

<212> DNA

<213> Zea mays

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cttaaggatg ttggcccca gtaacttccc tgccttggaa tactgtatct caaaacctaa 180

atcgaaaaaa gaagtgtatc aaggattgct acagagacat ccatctggct tgagctggct 240

tttgctatgg caaacacaag tgcaaggatc gctgggtgtt gcaccgtgtc tgcattatgt 300

ggttacattc tggaccctgt attttctatg cttttatgcc cctactgttt agtattaatt 360

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<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H11

<400> 50309

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gaagcgttaa cttaaaaaat gggcagccgc tgtttgtgct cc 102

<210> 50310

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H4

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ctcagacctc atgcaaggga ggtacaatgc catgagcaaa tgagatgttg aaggcagatt 180
 caaagaatga tgggtggctt tg 202

<210> 50311
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H7

<400> 50311

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 aatggaagtt taattagata ttttataaca ttaattagta taccacatag gatttgttgg 240
 aggtgttttt ttagaagttg agccctatat ttagggcatt gatttaagac aagcttgaag 300
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<210> 50312
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H9

<400> 50312

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 aataagatgg tggatgatctg agtggtggc ttagtttata atgtatcgct cgcagtttaa 180
 tttagcgggt taggtgtgga tctgtgaacc ccatggcgcc tctgcttgat tctgttttca 240
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<210> 50313
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A1

<400> 50313

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cagaggattt gatgaaacct gtgctggtgg ttggcaatgt gaggctgaca aagggaagct 180
gttgcaggaa ctcacgagta ctgctggcg 209

<210> 50314

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A10

<400> 50314

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agacgcatat gaaagggaga agatctacgt ctaacgcaag caaatccaca tgtacgagca 180
tttctgcata aatctggcgc aataattgga ctacacattc ttcaagagca atctgccttg 240
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taccattccc agcgaacatc gaaagcgact tatgcaatgc catgctgctg ccaaattgct 360
ccctgttggt gttccaacc ggattgcgag agaaactggt gacactgagc atggcaagag 420
ctcgat 426

<210> 50315

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A11

<400> 50315

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tttcatgcag aaaggaatga agaaagcgct gataccttat tttagactca caaatgctga 180

caggggttggg gaccttgaac tggtcagggc tggtgcagac aaatttaciaa gcacattcag 240
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 gcgcaacatc agcatatctt actcaaggat ctcccttgct gacattgcta agaagctaag 360
 actagactct tagaacccta ttgctgatgc agagagcatt gstatcc 406

<210> 50316
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A2

<400> 50316

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 catcagctac ggcgcgctgc ggcgggacaa cgtgccctgg ctccggcgcg gggccagcta 300
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<210> 50317
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-034-Q1-K1-A4

<400> 50317

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 tggctctcac cacctgctcc atcacttggc atcgccgact tggccatcca cgacccgacg 180
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 agcaagtttt tgatttggtt cattgtgatc tctggacctc tcctgtactt agtttgtctg 360

aatataaata ctatctgatg attctggatg ctntttccat tttctataga cctttcctct 420
tctgttgaag tttgacacg 439

<210> 50318
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A5

<400> 50318

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gttacatccc tatgaagaca gcagaggatt tgatgaaacc tgtgctggtg gttggcaatg 180
tgaggctgac aaaggaagc tgttgcagga actcacgagt actgctggcg aggatgtcgt 240
ctttgccatg aatgcgttca taaagcgcct gttggcggtc tctgactcag agcagatgaa 300
ggtgaggggtg agggaatggt atgcatggca gtgcttttgt ttgatttgaa cttgaacttg 360
tgtgtgtgtg tgtgtgcaga cagcagtctc ggaaacaagt gc 402

<210> 50319
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-A6

<400> 50319

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aatttagaaa tgtacatcaa agtctagtaa tacattgtta aagataaatc aataactcaat 120
aagttcctca tgctttggat ttggggataa catacctgtt ttattttacat gctaataattt 180
ggaccaacaa aaaatacctt aggaacagcc atttgagaaa aaaacaaagc cttttagtcc 240
taagcaagtt agcatagctt agagttgcaa cttctacatg agcacaataa acaganaaga 300
aagagaaaag ganaatanat atatatggca ccaaagcta ttaccatggt ataataata 360
attaatgacc gaaattataa acattnttac aatcttagca aacctntcac gtgtagtctg 420
aatcga 426

<210> 50320
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A7

<400> 50320

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aathtagaaa tgtacatcaa agtctagtaa tacattggta aagataaatc aataactcaat 120
aagttactca tgctatggat ttgggagata acatacctgc tttatctaca tgctaataatt 180
tggaccaaca aaaaatacct tatgaacagc catctgagaa aaactcatag ccttttagtc 240
ctaagcaagt tagcatagct tatagttgca acttctacat gagcacacta aacagaaaag 300
aaagagaaaa ggaaaatata tatatatggc accaaaagct attaccatgt tataatataa 360
atttaatgac cgaaattata aacattctta caatcttagc agacctctca acgtgtagtc 420
tgaatcgaca gaaca 435

<210> 50321
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-034-Q1-K1-A8

<400> 50321

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gtgcagctga agaggcactc aacctagagc taaaagaagc tgaggcaagt gtaaaagctg 120
ctgagaagaa aggctcagac cttgagcaac aactcagtga gattgagagc aaattagttg 180
catcaagtga agaaatagag ttgctgaaag agcgtattca acaagaagct gctgtatcag 240
cagaaagagg aatgcagctt gaagaaacaa tgaccagtgc agaggggatac aaagaaaaaa 300
ttaacgagct acaatcctcc ctagattcct cgatgtctaa aaaccagcta cttgaacaag 360
aagtcaagga gctgactgat aaatgttcag agcatcaaga acaagcacat tcagttcagc 420
anagaagtct ggagctgga 439

<210> 50322
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-A9

<400> 50322

cgaagaagca aacaatgcac attataattc ggtggctatt atcgatgctg atggcgctga 60
tcttggactc tatcgcaaat cacacattcc agatggacca ggatatcaag agaagtttta 120
tttcaacccc ggtgacactg gctttaaggc tttcaaaacc aagtatgcca ccattggtgt 180
tggaatctgc tgggatcagt ggtttccaga gtgtgcaaga gcaatggcac ttctgggggc 240
tgaaatactg ttttatccca ctgcaattgg atccgaacct caggattgta acctggattc 300
ccgtgaacat tggaagcggg ttatgcaagg ccatgctggt gccaaacttg tccctcttgt 360
tgcttccaac cggattggca gagaaactgt tgacactgag catggcaaga gctcgataac 420
cttctatggg a 431

<210> 50323
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F1

<400> 50323

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aattgggtcg gtaccttttt taccttggtg gctccaacaa tcattagccc tatttcaaca 120
ggtacctttg gtgcatttat tggcacaaaa catcagggga caacaacttc aacaacttgt 180
gctagcaaac cttgctgcct ac 202

<210> 50324
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F10

<400> 50324

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 cgggcgcctt ttctggcgac gacgctgact tggacaaggc gctgttcacc gtgcccgcg 120
 cctactgcgg cggacgggcc ggaggactat tctcgctacc gcaaccaag tcaggccgcg 180
 cctgtctctt gtactgccta ccggcgccca aatccaccct tgagacgcgt cttctgtgt 240
 gatatcggcg cccaaatgcg gcaacgcccc cacgttctcc tgcattgccg cgcacaagac 300
 ttacggagga aaccctaagc gcgttgtaga gaaccgaccg cagccgatcc tgcagtacgc 360
 atgcgacagc tccgacgacg acgaggacta cgccaagaag cgcgcgcga gctacaacga 420

<210> 50325

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F11

<400> 50325

acactcttgc cccagccgtc cgacaaaacg gctaccaaac acctgactct ttgccggccg 60
 cgaaggttta gcattggcgg gggcatcgcc accgctgccg catacctcaa actgtgttat 120
 tgtacccac gaccagctgc tctgcgtcgc accgcgggta cctggacacc taccgtcacg 180

<210> 50326

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F2

<400> 50326

cccacgcgtc cgggaggggg agcaagcagc agccgtccgt ggaagaagat gtcctagggtg 60
 ctggggcatc tgcactcggg gtgggcggtg gaccaggcca tcctcgccga ggaggagcgc 120
 ctcgatcatc tccgattcag ccatgactgg gacgagacct gcatgcagat ggatgaagtg 180
 ctggcagcag tagctgagac cataaagaac tttgccgtca tctaccttgt tgacatcaca 240
 gaggtccctg atttcaacac catgtatgag ctgtacgacc cttcgacagt gatgttcttc 300
 ttccggaaca agcacatcat gattgatctc gggactggaa acaacaaca gatcaactgg 360
 gccctgaagg acaagcaa 378

<210> 50327
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-F3

 <400> 50327

 aggaatcctc cgatggctca tcgcgttctc ctactcctct gtctcgcgtc ggccgcccgc 60
 gttggcgccg acgtcgacgc gtaggacccg ctgatccggc aggttggtcc cggaggagat 120
 gacaacgata tggagctgaa cgcggagtcc cacttcctga gcttcgtgca gcggttcggc 180
 aagttctaca aggacaccga cgagcacgcg tacc 214

<210> 50328
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-F4

 <400> 50328

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 ttcaatgggc tatcgaacac tctagcttgt gcaaagccta catagctaca acatagcgct 120
 tgcggcgaag cgtcttataa caaccaatta accaattgca acaacaatcc ttggcacatc 180
 taaccatata aaccatcgca acacaacagc aacaacagtt cctaccagca ctgagccaac 240
 tagatgtggt gaaccctgtc gcctacttgc aacaacaggt gcttg 285

<210> 50329
 <211> 194
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-F5

 <400> 50329

 aggaatcctc cgatggctca tcgcgttctt ctactcctct gtctcgcgtc ggcccttgccg 60
 gttggcgatc acgactactc gtaggaccac cttatccctc acgttggtac cggaggacat 120
 gacaacgata tggagctgaa cgccgagtcc cactacctga gcttcgtgca gcggttcggc 180

aagttctaca atga

194

<210> 50330

<211> 217

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F6

<400> 50330

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cagcggtagc gcgccgtgct ggtagacagg gtgggcggtc ccggtgaggg ttacaaagag 120

ctcttggtg atctgacagg tgacaactga cattactccg gttataacat ctacttgcac 180

agcgaacaca aatgttagaa aacctagaag ttatttta 217

<210> 50331

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G10

<400> 50331

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agagctaccg cgtacatgtg atgcctacct tgtgctccat caggaacgga cggacgctcg 120

agagctattg ataccgtcga caaggacgag cttcaggacg ccgataggaa gtacgccgcc 180

actggcacta cgacggctcc tggctcagcg tgcgactaac tcaggagatg tgatgtgtag 240

caaatagcgc gcgcacacca gtcgtgaata aataaataga tccattaata aactaatcag 300

atgaagggca acgtacgacg acctattagt ggtacgcgcg gtagtagcta gcagagtatg 360

ctccgacact gtgacgatct 380

<210> 50332

<211> 392

<212> DNA

<213> Zea mays

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<400> 50332

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gcactccaac gtgtggaact cgcaccccaa gaactacggg cccggatccc gcgtctgccg 120
ggtctgtgcg aaccctcatg gactgatcag gaagtacggg ctgatgtgct gcaggcagtg 180
cttccgcagc aacgccaagg acattggctt catcaagtac cgctgaagtc agctgggcgg 240
gctatctgaa tgccatctct tggacagtgt agtagaggcg atgccacaat ttttaattact 300
gtcatttaga tgttcccttc agaactctgc tatttaagtc cgccatgttt gtgatggaga 360
actgaaagct tgtttgttat actgattatg ag 392

<210> 50333
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G3

<400> 50333
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aattgtctac aaccatgacg tgcgttctca aatgctcata ccgcttagcc gtaaaaattg 120
gtcgcgatat tgaaggttct aagctacatt gtaaaaggca aggaactctg catcttgtac 180
acatactcta gcatagatgc agaacgtaga cctaattattg atgatgatcg atacgacttg 240
cactgctact atctccaatg tttggccaga gactactctc gatgtctacg agaaagatga 300
gcatgacttt ggattctatt gaagcttatt gaagccgttg gtgcagctta tcatgatgaa 360
ct 362

<210> 50334
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G4

<400> 50334
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gttgtggaat gtatatgcag ggcagcaggg gagctgactg atgaatgttt gtgttgcttt 120
atgctgtcta agaaacggta cttgtctcga cgcttagagc cagttagcat agcacatcgt 180

gtgcagtatc cggatgaaga attgggaaaa aacaatattt gtaagcgtca gctagacaca 240
 ggcgaaatcgt aataattggt attttgccac ttgaaatggt gcatacttct gtaattaccg 300
 tttgtgt 307

<210> 50335
 <211> 193
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-033-Q1-K1-G5
 <400> 50335

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 ctatcgccag atcaagaaca agccataccc caagtccagg tactgccgtg gtgtccctga 120
 cccaagatc aggatctacg atgttggcat gaagagaaag ggtgttgatg agttccccta 180
 ctgtgtgcac ctt 193

<210> 50336
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-033-Q1-K1-G6
 <400> 50336

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 ccttcgtcgg ggaagagaac ccgccaggag acctaccctt cctcaatcct ccgaccctcc 120
 atggcctcct cctccctggc cctccctcca atctctctcc tcctcgcgtc gctgctcctc 180
 tccgccccct cgcgcgtcgc ctgcgcctcg ctttccttcc tcaccgcctc ctccaacggc 240
 tccgcctcca cctccgccga cccggagctg gaggacctgg ccccgagacc caccttcctc 300
 gaggaggtca tcgacgccgt ctcggagaag tacgactggg atccggacgc cgaggtcagg 360
 gtc 363

<210> 50337
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C6

<400> 50337

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caatacatat agcttaggtg gcaagaaaaa gctggtccta tccactgcaa cctgccttgt 120
ggggaagaac gattttcttg gctttgcata ccttatagtt ggtgggctat gcattttcct 180
ggcattggca ttcaccttgc tgtacttcgt aaaaccaagg aaactgggag accacaacta 240
cttatcctgg aacagactct aggatgattc ggaacaccaa gtgtccgtac tactcgaaat 300
gtagcttgta tgaaatgaaa tgctctgaac cagaaatgtc gatgggcata agcaagcat 359

<210> 50338

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C9

<400> 50338

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catatatgaa catttttgcc tccttatggc ttggaaatgt ggaattggaa ttcctttcct 120
ttggcttcag gataggccta ataagaaaac aaataattcc aattcatata tgaacatttt 180
tgctcctta tttcttgaaa atgtggaatt ggaattcccc gaggaattcc gatctcattt 240
cctttggctt caggataggc ctaataagaa aacaaataat tccaattcat atatgaacat 300
ttttgcctcc ttatttcttg aaaatgtgga attggaattc cccgaggaat tccgatctca 360
tttccttttg cttcaggata ggcctaataa gaaaacaaat aattccaatt catatatgaa 420
cattttt 427

<210> 50339

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D1

<400> 50339

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 cgcccggggcc tgcgcgcgtcg tctctcgcgt cgccaccccg gccctcgccg gtgacccccca 180
 catgctgcag gacgtctgac cggctgacta cccctccccg gtgaagctga accggttcgc 240
 gtgcaaagct aacttttcgg ccgacaactt cttgttgacac gggctgaaga accctggcca 300
 cagcaacgac ccgggggggct 320

<210> 50340
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D10

<400> 50340

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 aggcgtggga ccgacaagcc attgcttccc ttcagcaagg cagacgaaca agaagataag 120
 aaggatgtgc cgaggccggt gacatactcc tactctttct ttcacctcat cttctccctg 180
 gccagcatgt actcggcaat gctcttgact ggctgggtcaa cttcgggttg tgagagcgga 240
 aagcttgtgg atgttgggtg gccatctgtc tgggtcagga ttgcaaccga gtgggcgacg 300
 gcaggctctgt tcatatggtc gcttgttgca cccgtactct tccccgacag ggaattctaa 360
 gttcaaccac ggtaagcctg gagcatcaaa cgtgtctact gtggtagcta aaatattcta 420

<210> 50341
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D11

<400> 50341

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 aaggctctatc gaccatacaa ccctgaaca tgtctaattc ctcccatttc tcaaacatct 120
 ttcaacacca gatcaacaca ttctacatct actacaacgt caaacttcca ttttacagca 180
 cttcaagcc ttatcccacc aatctcaggc ccaccattac aactatata gctcttatcc 240
 tatgttctac cagcttcata ca 262

<210> 50342
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D2

<400> 50342

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ggaggtgcat tgaataaaga catagtagta tcacgttttt gg 102

<210> 50343
<211> 352
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-033-Q1-K1-D3

<400> 50343

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agacaggtag gaggggtccgt gttcgtggag gtaatgtgaa atggagggct cttcgccttg 120
atactggtaa ctactcatgg ggaagtgaag ctgttaccgg caagaccgg atcctcgacg 180
tggtctacaa tgcgtcaaac aatgagcttg tgaggacaca aacccttggtg aagagtgcc 240
ttgtgcaagt tgatgctgcc ccattcaagc agtgggtacct cactcactat ggagttgaca 300
ttggtaggaa gaagaaaacc cctgctgcaa agaaagataa tgctgangga ca 352

<210> 50344
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D5

<400> 50344

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cgccggagcg gctcgtcaga cgagctacta tgacgcggta gttggctgca gccgccggcg 120
ccaccgagcg ctggcggcaa ggcgcaggaa gttgacgtcg gcggcggcgg cggtatgtgt 180

ggcgccggca ggaggagcgc cgcgacggtg gcgccgctgc agcactcgca ctccgcgggg 240
 ttccgcgacg acacgcatcc cgtggcggcg aggctgcgca ccgagtgtc cgcgcgcatg 300
 aaggcggcgc agacggtgca cg 322

<210> 50345
 <211> 306
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-D6

<400> 50345
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 gaagcgcgcg agcattcaag gactttggct cctttccatg gttcttctag cgtcgtcctc 120
 tcttgtctgt gcaagcatgg cggtagatgg gcaaaccaaa gaggacatca acgcaacgag 180
 tgtgacgagc atgaacatga cgaggtcatc gtcgtcgagc tacaacatga ctggcggcag 240
 cggagaactt aacagaggtc cgtgcgtaat gagatctgga ttctactggt tccagaacat 300
 tggcta 306

<210> 50346
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-D8

<400> 50346
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 ctcggaagcc gacaagaagg cattcctcaa gaccaaggct aagccggcaa atgccgccc 180
 tgccaagacc accgccccca agccggccaa ggccgcgcgc gacaagtcaa agaatgcagc 240
 ggctgccaag ccaaagaagg ccgctgctgc tgggaccaag cgcaaagtgc ccgagaagaa 300
 tgtcgtggcg aagcctaaga agtccccgc cgtcaaggcc aatgccaagc cgaagaccgt 360
 gaagtcccc 369

<210> 50347
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-D9

 <400> 50347

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 cagggtgtcc cgtctcaccg cgtgggagat gaagaagccg gtcatgaacg gggcctgaag 120
 atcttgaata aatatatcac ccatgcatga catagtggcg cctgaggaat ctttcctttt 180
 tttaaaaaac atattttaga tgcgtttat taagagttga ttgtccatac taaagggcgc 240
 cccgttatat gttacaatgg taccagctgc acttctagta ac 282

<210> 50348
 <211> 163
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E1

 <400> 50348

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 gataaaagaa aaatattaaa aagaaaaaat ccaaaacaat aaaaaaaaaa aaaaaaaaaa 120
 aaacaccaaa caaaacaacg gaactactaa ataaaaaact aaa 163

<210> 50349
 <211> 265
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E11

 <400> 50349

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 ttaggaataa tctgctgatg tctgcaatac aggaccttcc agcagcgcac ttcaatcaca 120
 ctaagaaccg gaatacgate tgacatcatg cgctctaagc tcacgcgggg agtctgtaaa 180
 atccattgtc tatataccgt gagcgtacgg attggactta tacactcagt tctgagaagt 240
 agaaaggctg accaatttat catat 265

<210> 50350
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C5

<400> 50350

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cttcaattcc tcattccgtc cagcgatcgg ccttcacgcc agtctcggtc tcttgccaag 120
gcttcgctcg cggttgttag agaggagagg aggaagatga gggagtgcac ctccgtccac 180
atcgggcagg ccggcatcca agtcggcaac gcgtgctggg aactttactg cctcgagcac 240
ggtatccagc ctgatggcca agtgcctgga gataataccg cgggacatca cgatgatgcc 300
ttcagcacct tcttcagtca gactggtgct gggaagcacg ttcctcgtgc aatcttcgtt 360
gatctagaac cactgtgat cgatgagggtg cgcactggca cgtaccggca gctctttcac 420
cctga 425
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<210> 50351
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-E2

<400> 50351

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agaacgtcaa ccagtaccg ttcatggcca tgacctcctg cggcaaccag ccgctctggc 60
gcgagggcaa gggatgcggc tcctgctaca agatcagggtg ctccaagcac gccgcctgct 120
ccggccgcac cgagaccgtc gtcacaccg acatgaacta caccgccggc gtcgcgcctt 180
accacttcga cctcagcggc accgccttcg gcaggctggc caagcccggc cgcaacgacg 240
acctgcgccg cgccggcatc atcgacatcc agttcgccag ggtaccctgc gagttcccag 300
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<210> 50352
 <211> 196

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-E3

<400> 50352

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 gaaagagaaa atttaaaacc gagaaaaatc cacacccaca atcacccaaa tatcacaaac 120
 aataactttc caataatata acccaaattc aatgacaccc aactacaatt cacaacacca 180
 tagaatgaca aaaccc 196

<210> 50353
 <211> 327
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 50353

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 cgactggctt gcgtgcgccc gcgcctccgc ctaacctgc tagcttgccg gcccaacgcc 180
 agatgccctg agcccaccgc cggctgtctg tgcacgcaag tgaaccatc cggctacctg 240
 ggcacgccat ccgacctccc tgcgaacctc tgtatctgcc gatattctc aagaacacag 300
 tgcanacagt aagttctgga gacagca 327

<210> 50354
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-B1

<400> 50354

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 atcatcccg tccacctggc agtttcgccg cgtgcacgag gctctgcct tccaaccac 180

agacaaggta cttctcggag agcacagggg tegtctcgga ctactcttcc agcggcattg 240
 tacatagagg aagggatcca ggtagggcat acacctgttc agcgggaaccg ctcgcttcgg 300
 ctgcgggcggc gcaccagcac cagcgggtgag gcgtattaaa tnttggctgc atgtcattcc 360
 taggctagct cgattcaatg tancgagaga gagaggaaca aat 403

<210> 50355

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B10

<400> 50355

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 ctggaatata atggaagaat tagatgattg gcctgtgctc gcaaagaaag aatacgatga 120
 ctggcttagt tcaaaggctt catcctctta taacctgtt gatgatata taaccactga 180
 gatgaacagt tagctgccac aatctttcac ctacggaggc ttcattcctc aatcatgtgc 240
 acccggtcat tcaagtttaa gtgacaacac gaccaaggaa gagccctcta tgacatttac 300
 tggttttcaa ggatgcactg tcagtggaaa cggaatgcct tcatctacag tgccaataga 360
 tgatatctat ggatatcgag gtccacgttc acatcggatc ttacgtacgc caatgccatc 420
 ttatggtaat gatata 436

<210> 50356

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B11

<400> 50356

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 ctacatcccc attccccaga ccaacactca ctttaccgat actattcacc cgcaacacga 180
 ctttccaccc aacatgcact acatctacac cttcct 216

<210> 50357
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-B3

 <400> 50357

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 tttcactaga gaaactctcg cagcagtcaa aacatcttac caagatactg cctgctccca 180
 gcccattggc gtgcttttca atatttccat gcctcagcca gaagactgta gcaactgggg 240
 tctgtagagt tcaactgtggg atttgttcct caaggagag cttctgtctc ttgcatggca 300
 aggcagtgga gaagctagtt gcctgcttgg ataataataa cgagaaagta gtcgaagctg 360
 ctctagcagc gctgtccact ttact 385

<210> 50358
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-033-Q1-K1-B4

 <400> 50358

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 ctctttggtt cccctccgg cgcaggcgcc gtcaccgctg ccaagctggc ccacgtcctc 180
 tcctttgcca ctctctgggg cgccggcctc tgggccacct ttatcggcgg catcatcatg 240
 ttcaagaacc tgccgaggca catgttcggc aacttgca gaagatggt cccggcctac 300
 ttcacgctta tctctgcctg cgcagccatc tcggtcgcca cttctctgca ccttcacccg 360
 tggaagacng cctccaccgt ggagcgctac caactt 396

<210> 50359
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B5

<400> 50359

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ctgtcagtga ctacaagcag aaaaatcgag actgactcac tccagtatgt ccacacaaaa 120
gatctgatta tggattacct gaggataaat ttatttttgc ttgcttcaat cagctttaca 180
aaatggaccc tgagatattt gacacatggg gcaatattct caaacgtgtt cccaacagcg 240
cattatggct tttaagattc ccggcagctg gtgaaactag agtgagagca tatgctgctg 300
ccagaggagt aagatcagat caaattgtat tcacagacgt tgccatgaaa aatgagcata 360
tacgacgcaa tgccctggca aaccttttcc tggacacttc cctttgcaat gcacaca 417

<210> 50360

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B6

<400> 50360

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agagttcagt ctggtgagag gaattgacat tgaagctcac ccgtatttaa tcaaagtttg 120
tactgactat aaaa 134

<210> 50361

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B7

<400> 50361

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ggttggtttc tactgcccct ccgatcggg atggggttcg tgaggttcta catggttcgt 120
gttctgggt tagcggatct agatggctgc gtcagatgtt gaataccgct gcttcgtcgt 180
cggactcacc tggggcactg acgaccactc ccttcacaac gccttcagca cctaccgca 240
ggtcctcgag tccaagatca tcctcgatcg ggagacgcag aagtcgccg gcttctgctt 300

cgtcaccttc tccacagaag aagcgatgcg gaacgccatc gatggcatga acggcaagga 360
acttgacggg cgcaaca 377

<210> 50362
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B9

<400> 50362

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aaggttcaac caaattacag tggatggtga tactagtacc aatgactgtg ttattgctat 120
ggcaagtggg ttgtctggtt tatctggaat tcaaagtctt gatagcattg aggctcaaca 180
gttccaagca tgcctagatg cagtaatgca aagtcttgca aaatccatag catgggatgg 240
tgaggggtgca acatgcctaa ttgaggttac tgtaagtggc gccacaacg aggcagaagc 300
tgctaaaatt gctcgttcag tagcatcttc ttctttggtt aaagccgcta tatttggaag 360
agacccaaat tggggacgaa ttgcttgctc agttgggttat tcaggcattc aatttgacgc 420
aaatcgactt gata 434

<210> 50363
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C1

<400> 50363

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cccggggcgc gaggaacttc ccacttcag gccagcttg tctggtagg attagggctg 120
tcgcttcgca cgtgtccggt gtgccgccgt cggagatgtc gcggacgctg gtgcagccgg 180
tggggcagaa acacctcacc agcgtggccg cgcacctatc ggccgcgagc taaacgagga 240
tcctaaccctt aaccctgggc agactgatac tctactcctg gatgacaata ctaaactact 300
tcggcaacaa cattcccatc aacggatcta tgtctggctg tcatcgcgaa gatca 355

<210> 50364

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C10

 <400> 50364

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 ccggctgaac atacaggtga acacgccgct aaaaagcaag cgacgtaacc aagggcgacg 120
 ccaaggcgga catcaacgcc gctatcagct ctgctaatat ccctttgact gtcacgttca 180
 cagacacttg cgcaagctac gacaccaacg tcgagatcga gaagatctag gagaagctcc 240
 agctgaagag gcacctgaag atgcacacca tgctgaacac ttacatggcg gatacctcg 300
 cc 302

<210> 50365
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C4

 <400> 50365

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 taaaaaaaa aaaaaaaaa aaaagaaaaa tgtaaaattt aaaaaattt aaataaaaaa 120
 aaaaaaaaa aaatataaaa ttaaaaaataa aaataaatat 160

<210> 50366
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-A9

 <400> 50366

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 cctgcagcgg ctgtgtttcc ggacggcgta cgtggcgagc accacggggc tggccctcct 180
 cttcccctac ttcaacgagg tgctgggcgt gctgggcgcc gtcgtcttct ggcccctcgc 240

catctacctc cccgtcgaga tgtactgcgt ccagcgcggg gtcctgccgt ggacgcggac 300
 gtgggtcgcg cttcaggcat tcagcgtcgt ctgcttcgtc gtcggcacct tcgccttcgt 360
 cggctccgtc gagggagtca tccgcaag 388

<210> 50367
 <211> 157
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-H3
 <400> 50367

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 aggggggaga caggaatgtg gacgggatta tgaaggagat gattgagcgt ttggaatcgc 120
 gtgtgaagac ggacgaggaa accggggacg aaaagga 157

<210> 50368
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-H5
 <400> 50368

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 tctcaagtaa tggcgggctaa cgaatttgag tccaaagatc caatggatgg ctctatgtcc 120
 aagcaccacg gcatacgcta cctattcgga gatgggtcac gactgggtgtt ccgtctatac 180
 ataaccgtgc atgttgagtg ccaccatccg tgtctacact cgacgatacg agaacgattc 240
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 acttctccaa aatccaagag tacac 325

<210> 50369
 <211> 235
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-H7
 <400> 50369

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 aggggtccggt agagcgacct gcacttgatt acgaacggga cggttgcgcc atcgccatcg 120
 accctgaaag cggtagagga aaccctggag gccaccgcag ctgtcgaaaa aatcaccggg 180
 ttcaccgcta cgcggatccc cttgtactac cccttctgcc tcaacggagt cagca 235

<210> 50370
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H8

<400> 50370

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 attgccgcca gtgtctgctc gatccgatgg ctcccacgaa gaagtcgaag aagagcacag 120
 agagcatcaa caacaagctg cagctggtga tgaagagcgg caagtagacc ctgggctaca 180
 agaccgtcct caagacgctg cgcaactcca agggaaagct gatcatcatc gcaaacaact 240
 gccctacact taggaagtct gagattgagt actacgccat gctggccaaa gttagtgtgc 300
 accatttcca cggaaacaat gttgatcttg gcactgactg cggcaagtac tacagggtgt 360
 gctgcctcag tatcatcgac ccatgtgact aggacatcat cagtaccacc cttggcaccc 420
 agtgagccag ccccggaacc attgca 446

<210> 50371
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H9

<400> 50371

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 gaaggaatta aggagcagtg aatagcgata cgaccgacat gctggagaag ctgtgggacg 120
 acgtggtggc ctggcctcgc tccggagacg gtctctgtga agctacgcaa ggccaccacc 180
 gtccgaccga tcgtagtcgt cgacaaagaa atgactacat gcattctctg atctgtctga 240
 ttgagtacat tgaacacttg ggggacacat ttggcgaaga acacggatcat ctttatcttc 300

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313

<210> 50372

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A1

<400> 50372

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ttatgttccc aaggcgtgca cacaaggta aggctgggtga ctctactcca gaggagcttg 120

ccaccgctac ccagggtccag ggtgactaca tgccatttac tcgtgggtgag aaacgttcag 180

ttgaggttgt gaaggtcaca gatgagatga agtcatttgc tgcctatggc aagctccgcc 240

ttgagcggat gaacaagaaa catcttgggtg cccgtcataa gaaggcagct taagcagaga 300

atgaagataa gaagtgaagc tgttgaagat agtaccctgt tttgttctat tcaatcatta 360

atgaatgcta ctac 374

<210> 50373

<211> 350

<212> DNA

<213> Zea mays

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aaacggagtc tatgaagctg cagaagcggc tcgccgctag cgtcctcaag tgtgggaaag 120

gcaaagtctg gcttgacccc aatgaagtca gcgagatctc catggctaac tcccgccaga 180

acatccggaa gttggctaag gatgggttta tcatcaggaa gcctcagaag gttcactcta 240

gggtcccgtgc aagaagggca catgatgcca agcagaacgg aaggcactct ggatacggca 300

agcgcacatggg taccaaggag gctaggctcc ccaccaagat tctgtggatg 350

<210> 50374

<211> 389

<212> DNA

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<223> Clone ID: LIB3079-033-Q1-K1-A12

<400> 50374

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atcatccact cgatcatcga catggacgcg gacgtgatca ccattgagaa ctgcggtgcc 180
gacgagaagc tgctctccgt gttccgcgag ggcgtcaagt acggcgcggg catcggcccc 240
ggtgtctacg acatccactc cccagagatc ccgtcggctg aggagatcgc cgaccgcatc 300
gacaagatgc tggcgggtgct ggacaccaac atcctctggg tgaaccccga ctgcggcctc 360
aagacccgca agtacacgga ggtcaagcc 389

<210> 50375

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A2

<400> 50375

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cgtcgatccg gctgcggccc ggcgtgctag atcgctaccg atcatggtgg tggatgagat 180
cgccgacggg gtgaagaacc tcaccgttac cgagacgcg gcggcttcag gcggagaggg 240
tcatacgagg ggcggcggct gcagcagcaa ccgcatccag gtgtccaaca ccaagaaacc 300
cctcttcttc tacgtcaacc tctccaagag gtatatgcaa cagcacgaag atgtagagct 360
attcgatctt ggaat 375

<210> 50376

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A3

<400> 50376

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 gctgagcaag atcgcttgca atcggctgca gaaggaactc gccgagtggc aactcagccc 180
 ccctgctgga ttcaagcaca aggtctccga taacctacaa aggtgggtaa ttgaggtcac 240
 tggagcggcg ggcacccttt acgccggcga gacctaccag ttgcaggttg acttccttga 300
 gcattatcct atggaagcac ctcagggtcaa ttttctcaat ccagcgccaa tgcattccaca 360
 catctacagc aacgggcaca tctgctt 387

<210> 50377
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A4

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 taatgcattg actttcgggtg gcatgggaag gaggaagaaa agcatgccaa gaagtgggttc 120
 ttcgctgctt cgagacatcc acagagaact tccatctagt ggtgtatccg gaggtgttat 180
 gtctttgatt gatggttcat atgagtatta tcattatctt cacgatggta ttgatgacaa 240
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 atattcatca atagatgttc cttctcacag ggagattcag caagttcttg ttgaaattgg 360
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<210> 50378
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A5

<400> 50378
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 taaatggccc gaaccaaga tagctaaagg agcggagtac aacttcatga tgaagctagt 180
 gcccaaggct tgagtcttga accttataag atctgactag ggaaaaaaag ggaaaggttt 240

gcccgtgtag gttctgcacg gatgcacgat ttgctctgca ttcattgtgta cagcatttgg 300
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<210> 50379
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A6

<400> 50379

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 cattcgaaaa gtccatggca actgaaacgt gaacatatgg tgtatgtttc ttcccctaata 180
 tcggtcgtat ttggatgctt gagtcctgca ttgcatgatg aagaacattc tcagtctctc 240
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<210> 50380
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A7

<400> 50380

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 gatccggggg tcccacggct tcgcagcagc aagcgccacc gacgtcgtac taccagcagc 180
 agcagcagca gcagcagggg ccaccgtctc agtactacca gcaggggtacc gcacaggcgt 240
 gggcgcagca gcaacagtac gctccaccgc cggcgcagta ccgcgcctca gatgcagcag 300
 tacgtcttac caccgcagca gtacgcctt ccgcagtagc agcagtagc cgctacgccg 360
 tagcagcaat acg 373

<210> 50381
 <211> 286
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F12

<400> 50381

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cggggcccgcg agcgaccgta gcgaggtgat tgcaatggtg gcctccactg cttcccgct 120
ctcgcccccg cgcttcagca ccccttcccc gtctcttcat cctccaaacc gccgctcgcg 180
cttctccctt gttcgcgag ccaagttgga agctgtgctg tctattggtg ctcatcta 240
cccacacca agaaaggctg caagtggcg agaagatgct ttcttt 286

<210> 50382

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F8

<400> 50382

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cggcacaact tccgccagc agcagcagca gctcatgtac tactagagta ctactactcc 180
atgaggcacc cagctaccta tcccttcaag aggaaggcga ggatgaatgg atgatgcccc 240
ttactatacc cctatacata tagtagatga tgaagtcatt actaggacct tttttcccta 300
atctttttaa gaccatcta agtaacatgt cctctctatg ctagctatat aattgtgtat 360
ttctggatac ataaagcaa ggttcttagt agtataatct ttctgtgttg accatctttt 420
attgtgatgt atggattttc gttggcac 448

<210> 50383

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F9

<400> 50383

ctgaatgaag cagccattct ggctggaaga cggggaagga cagcaatttc ttcaaaagag 60

atggatgatt ctattgacag aattgtagct ggtatggaag ggaccgtgat gacagacggg 120
aagagcaaaa gtcttgttgc ttaccatgaa gttgggcatg caatttgcgg aactttgacg 180
cctggccatg atcctgtcca aaaggttacc ttagttccaa ggggtcaagc tcgtggtctt 240
acatggttta tcccgatgga tgacccaaca ctcatctgca ggcagcaact ttttgccaga 300
attgttggcg gccttggt 318

<210> 50384
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G1

<400> 50384

gacgtacgcy tccggtctcg aacgccgaca ttgaagcctg ttggccgtgc tcaccccggc 60
tagcaggcta cgcgccaggt ctccaacttt ggttcaactca tctggcacta tactgacgct 120
cgccatcgcc agcgactaac taatcaccct cagtgaacat ctacgctgg tcagatgac 180
gagggaatga cagtcccaga agcaccgatc aagtaggcta tcgaacatat acagacacat 240
ttgcacggga atgactatga aggcatacac ctatt 275

<210> 50385
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G10

<400> 50385

gccaccttcg actaatcaca cttcacgtac gccgcacgcc ccagccggga tccaaattaa 60
agaacttctt cttctattaa ttacagtata ttgtaatttg gctgctggta cgggtggtggc 120
atgatttgag atgtgcatga tgatccttgt gtaattttat taccaagtct cttcttatat 180
ttacatgttc atttgcttgc ttcttgcat 209

<210> 50386
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G12

<400> 50386

gcttttttga aagatggaac ttatttttaaa ttgggatttt ctcaaaaacta gaccaaaaagg 60
gaagggatta atgccatatt aatcccctat tggacacttg cccaatg 107

<210> 50387

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G5

<400> 50387

gtctccaacg ccgccattga agcctgttgt ccctgctcac cccggcgagc aggctacacg 60
ccaggctgcc gcctctggcg cactccgttg gctctatcct gacgctcgcc atcgccgttg 120
agtaactcgt caccctcaat gttcgctca cgctcgccag gtgtttgagg gaatggtggt 180
accaggagca gtgacgtctt tgcctattgt atttatacgg aaacatttgc acggttttgt 240
ctatgtttgc atacacctat tgtatgtata cttctaactg ttggtatgga ggtgacctgc 300
aactttctca ccaaggcgag cacagtcacc cttgtgccac agcatgccct ggactctacc 360
aacaccgtga a 371

<210> 50388

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-G6

<400> 50388

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cgcgctctgc tctaagtgga cttcttaagg atgatgggat tctggtgatt ccaactgctt 120
tggggtgccc ccgaagctt aacgctaagg aactctcgct tgaaagctac aattctcaga 180
cactacgcct tttgtcttta gctagcatgt cagggtgttg ccaggtttcc attcctttgg 240
gtacacatga taagtgcctt atttcagttt cgttgattgc taagcatggt ggtgatcggt 300
ttttgttga caccacacan accatgtata caaccatcca ggagccagtg gagatactag 360

cgaaatctag tgtttcaagt aaacaggcga tgaatgaaga ggcagctgaa gctgctaaag 420
 agaaaggtaa tgctgcattt aa 442

<210> 50389
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G8

<400> 50389

gattcgtcac tccacctcg tcgcgccgcc gtctgccgcg tccccggcca gctcgcagc 60
 cccgtgggtct gctagcggct agccacagcg gagagaccag gagccatggg gatccctcca 120
 ccagcaaggg cagctagagt caccggtttc ctcaagccct acctgttgag gatgcatttc 180
 tcaaacaagt atgtatctgc tcaggtcgtc cacaccccaa cagcaactgt tgcattgtct 240
 gcaagctcgc aggagaagct gttgagacca aacatggagt cgacccgcga cgtcgcagca 300
 gctgcaaaga ttggaaagtt gctcggcgag cgctgctcc tcaagggaat acctgcagtg 360
 tccatccaca tgaagagaga aaaaagtac catgggaaag tgaaaggccg tatagattca 420
 gtcagagaag ctggagtcaa ac 442

<210> 50390
 <211> 256
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-G9

<400> 50390

gcgactctat gattcacggc ggagattatg acaagggcaa tgggtaccggg gggaagagca 60
 tatgtggacg caccttcaaa gatgagaact tcaaattggg tcacactgtg acctggagtg 120
 ctcagcatgg ctaatgctgg gccgaacacc aatggcagac agttctttat ttgcactgtc 180
 aagacacctt ggttggacgg aaggcatgtc atgtntgggc aggtcctgta agggatggat 240
 gtcgtaagtc tgcacg 256

<210> 50391

<211> 218
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-H1

 <400> 50391

 ctacattcta tggccaagtt gtaatgctat ccaactcatcc atatggttgt cgagttattc 60
 agaggggttct agagcattgt gatgatccta aaacacagca gataatgatg gatgagattc 120
 tgcagtctgt ttgcttgctg gctcaggacc agtatggcaa ctatgttggt cagcatgttc 180
 tggaacatgg caaaccat gagagatcag ctattatt 218

<210> 50392
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-F11

 <400> 50392

 tggaaaacat ggtactgttg gatagttatg aaaatgaaat agtggttaaata ggttaggttg 60
 cctgggttggt taatggaaat ggggttgact tggtcagaaa atgcctaagt tgctatgaac 120
 ttattttctgt tgcattgccat gctttctttc atggcactaa gaaagctgat gagtataacc 180
 agatttttca gcacaacaaa tgataggaga agctatatat caagcgtcca acaatttttt 240
 gagggcttgg aaaatatcaa tctctggaca tttaatggac cagggttaatt gggattatcc 300
 aacc 304

<210> 50393
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-H11

 <400> 50393

 gtcagttcag cggcgggttg actggccctg atgaagcttc cgaagtctga agcactgtca 60
 gctaggatgc ttctgattgg tgctggtaaa atgggaaagc tagtgatcaa acatctggtt 120
 gccaaaggat gcaagaaggt tgttgaggtg aaccgctccg tggaaagggt ggatgctatt 180

cgtgaggaga tgaaagatat agagatcgtg tacaggcctg tctcagacat gtatcaagct 240
 gctgcttaag ctgatgtc 258

<210> 50394
 <211> 320
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-D6

<400> 50394

caattaacta gcttcttcta gctctagcta ggctcgtctg ctgcaagaag gtaacagcgc 60
 aggcatggag gggaaggagg aggacgtccg cctgggcgcc aacaagttct cggagcgcca 120
 gcccatcggc acggcggcgc agggcacgga cgacaaggac tacaaggagc ccccgacggc 180
 gccgctcttc gagcccgagg agtcaagtc ctggctcttc taccgcgccg gcatcgccga 240
 gttcgtcgcc accttctctt tctctacat ctccatcttc accgtcatgg gcgtctccaa 300
 gtccacctnc aagtgcgcca 320

<210> 50395
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D9

<400> 50395

cccacgcgtc cgattttgat gtggagctca cttacaatta tgggtgtggag agctataaca 60
 tggggactgg ttttgccac tttggaattg ctggtgagga tgttgcaaaa acagtggaac 120
 ttattaaagc ataaggagga acagtcacaa tggagccagg ccctgtcaaa ggtgggaaat 180
 cagtaattgc ctttattgaa gatcctgatg gttacaagtt tgagcttata gaaagagggc 240
 ctactaccga gccttagtgc cacgtaatgc ttcgagtggg agatcttgat cgtgctataa 300
 atctctatga gaaggcattt ggcatggaac ttcttcgcaa gcgagacaat tctgagtaca 360
 agtatacgat tgctatgatg ggatatggta caaaagacaa aaatggctga ttggagttga 420
 cctacaacta atgggtgaag gaatatgata agggaaatgc ttat 464

<210> 50396
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-E10

 <400> 50396

 cccacgcgtc cgcccacgcg tccgctatct accagtggaa tagaaacgat gatgggaatc 60
 ctggtccagc agacaccgtg atgttccata accagtattg gacgagcagc acgcgccgca 120
 ggaggctgaa gaagaaccat ctccatctcg aggaccttga ggatttgatc tccctattat 180
 agaaaaccgg gttcgcagga cgcataaact gtgtgtgggg gaataatcgc aggttagcac 240
 tgttgctagt gtgcccgcct ctcttggaat ggaagcagca gagccagcta tc 292

<210> 50397
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-E12

 <400> 50397

 gaccacgcg tccgcccacg cgtccgcca cgcgtccgcg ctcacgcagg acgacgatgg 60
 acggacaact gtgaatgtcc gtatcactgg acttaccctt ggacttcatg gttccacct 120
 ccacgagttt ggtgatacta ccaatgggtg catatcgaca ggaccacatt ttaatccaaa 180
 caatctgaca caggtgcac cagaagacga agtccgtcat gcgggtgacc tngaaacat 240
 tgttgcaaat gctgagggca tagccgaggc aaccattgtt gataccaga ttcctttgac 300
 tggcccaaaa tcagttgttg ngagagcgtt tgtgggtcat gagcttgaag natgatttgg 360
 gaaagggggc catg 374

<210> 50398
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-E6

 <400> 50398

cgacaagatc taggggggggt tccctacggt tgggtatcag gaagattgta aaccgcggta 60
acgtgcgtca tgcggaactg ctgccttgcc ccccgcgctt ttctcttcca tggttggtgc 120
tacaatcttg ttgttgggca ttgcagtgcg cgggtgcacac ttgtgtagcc cgcctcgaga 180
attcctgcct ctgcatctgg tcagttctaa aatgatttgc atgttggcta tggttggtaa 240
gctctattta tgggtggtctc gctgagacgg gtatttggct tcgcagttat ctagctatgt 300
gatgtactgt tgtcttgtcc ctgggtatta tatggtacac tgcagccagt aatagtaaaa 360
a 361

<210> 50399
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E7

<400> 50399

gtcacgtctc ccagatctaa ctgcccccg actcacgaat cccaaagcct ccatggcgac 60
gcaccgccac tgctctccac tctctctcct cgtggccgcc gccctcgccg ccgtccctgc 120
tcgcgcggcg ctgggcggcg ggcgcggccc gctgctgggc ggggtggaacc cgatccctga 180
cgtgagcgac tcgcacatcc aggagctagg cgggtgggag ctggggcagg cgaagcacca 240
gaagctggcc gccgacgggc tgcggttccg ccgcgtggtg cgcggcgagc agcaggtcgt 300
gtccgggatg aactaccgac tctacgtcga cgccgccgac cccgccggcc gcaccgtgcc 360
ctacgtcgcc gtcgtgtacg agcaggtctg gaccc 395

<210> 50400
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-E8

<400> 50400

gccacgcgtc cgggcatcaa gaagctgcaa atcatgatga ccattgtcga tgacctgtc 60
tcggttgaca ctctcatcga ggaccatctc tgcgctgagc cagtgagcga atacgtccag 120
agctgcgaca ttgtcgctt caacaagatc taaatttcct tgtgatggtg gcaatggtgg 180

ttggtgggca ctgtaccagc ctaatttata atgttccatg agcatcttca agagttactc 240
 taaattatca tttggagtca tttacataaa aagcactttc tatatctttt taatctcaac 300
 aacttttcta tatcttgctt gcaccctgga gagctattta cgttttctat ctctagctag 360
 cgagaaacct gnatggctgg aatagaagat cacta 395

<210> 50401
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-E9

<400> 50401

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 ctgcgtcgag atggtcgagg ttgtatatga cagaatgact ggacggagcc gaggatttgg 120
 attcgtgaca atgtcttcgg ccgaagaagc cgaagctgct gtcgagcagt tcaacggtta 180
 tgcatttcaa ggaagacaac tgagggtgaa ctgcggggcca ccgccaccta gagatgaatc 240
 cacaccaaga gcaccaaggn gtggtggtgg cggcggcggc ggcggctatg tcgattcagc 300
 taacaaggtc tacgtgggga accttgctg gggcgttgac aactcgactc tggagaacct 360
 gttcagtgag caagggcaag tgcttgatgc taaggtcatc tacgacaggg atagcggcag 420
 gtcaaggggg tttggtttcg tcacctat 448

<210> 50402
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-F1

<400> 50402

aaaaagagca ggcgggacag tccggccctg atgccggtta ggccggacga tccgcggtcc 60
 ggacagtccg cggatgatggc tcggacggtc tgcgcgtgcy cagagtcagt taggatttct 120
 agtttctcgc gggatttggt acctaaaacc gcgggattaa ctcggaatc tgttgaagc 180
 ggatccagac ctccccttta tatcgatgaa gggctacggc cgattgtact ccctaacaaa 240

<210> 50403
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-B9

<400> 50403

cccacgcgtc cgcgctagtg gcggcagggg tgggtcaccg gaggtgcctc gggagtgggt 60
gcggaagctg tgggtagacg agctgaagaa gcagaaggaa gccgcgagga gatggggcgt 120
cggctcatca ttagagggtg caggagcgac cgaggaggca ccgtcaagga gctatcagta 180
cgaatacagc ggctctaacc ccgtggaggc caaactggct ccgcttcttg caagagctaa 240
cctcgtcatt gccagggata ttgagtgggc aaacatcatg ttgcttttg agcaggagag 300
caggtatata ataatggacc cactctttcc acaatctcca gtaggtttta ttcgagagaa 360
aagcancatc atcttttagac agttactcag aacaagacgg ccatttggtg cagaaataac 420
tgatgctatg ggtaacgaga 440

<210> 50404
<211> 262
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-C10

<400> 50404

ggtcactata gatgtcgcaa gtcctgaggc tgggtgttatt gaaaagctca ttgctagtga 60
aggcgacaca gttactccag gcactaaagt tgcaatcata tccaagtctg ctcaacctgc 120
tgaaacacat gttgctccat cagaggaagc aacttcaaaa gaatcatctc caccaaaagt 180
tgaagataaa ccaaaggtag aggaaaaagc cccaaaagta gatcctccca agatgcaagc 240
accaaagcca actgcancca tc 262

<210> 50405
<211> 353
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C11

<400> 50405

aagaccaagt cgtggaagaa gctagtgaat gttgctgtgt caggcgcggc cgggatgata 60
tcaggtcacc tgctgggtcaa actcgcttct ggtgagggtt tcggacaaga ccaaccaata 120
gcacttaagc tactcggctc agaaagatcg tttcaggccc tcgaagggtg agctatggaa 180
ctggaggact cgctcgatcc actgctgagg gaagtcagca ttggcataga tccttacgta 240
gtctttcaag atgtagattg agcccttctt attggcgcta agccccgaag tcccggcatg 300
gagcgagctg cgctactgga tatcaatggc caaatctttg ctgaccaggg gaa 353

<210> 50406

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-C12

<400> 50406

cgcaaatgcc attgtcgcag gttctgcagt ttttggggct ccagactacg ctgaagctat 60
cagaggaata aagaccagcc aaagacctct agctgtagcc gcataaagag ctggacgtgt 120
aatcatttac tctgtgcaag tttaccagtg atgcgatctg tatagatgtg tgtcttgtcc 180
agctatacgt ataccggaga tgaaaggaga cggaggcagt gaagaaatat cctttatatt 240
cttctcattt ttcacgagga tgccgtgcac tgctcccaga atgctngtgt ccaattacaa 300
acgcacaggt ggcacatgaa ctaacaaagt agctcttttt tgaaaggaaa cggaattggg 360
ggtcgatgaa ccttctggtg ttattcttca gactggtaaa cgatgtaaca tggttgataa 420
tcaataaagt ccgtcggatg gttttcct 448

<210> 50407

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C6

<400> 50407

catgccctag gaccaggggtg tacttcacgc tgtctcacag gacctcgaac tgggcctacg 60
atccctgcac ctgaagacga accggtatca ggatgtggtc acaaggagga gcctctatac 120
gaggccgacg tcgctcggag gcgcgcctat gttgtcaact gccgaggcac c 171

<210> 50408
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C8

<400> 50408

cccacgcgtc cggccaaaca cacgcgaaaa gaatgagttc gagtacaggt tacagagagg 60
cagagagcaa agatgtgtgg tgggtcgcgtc ctgcgccgagc tcattcccgac cacgccggcg 120
cgccgcggcg gcgcggcggtg gcccgccggc aagtgcgaagc ggcggaaggc gaacgacttc 180
gaggcccgct tccgggagtt cgacgaggac tccgaggagg aggaggagga cgaggggggtg 240
gtggagagca agccccgcct tcgtcgtccg cgctcgtcc gcggcgacgc agcccagggc 300
gcgccaggag cagcgga 317

<210> 50409
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C9

<400> 50409

gcaggaggaa gtctgtccgt ggttgcacgc tgagccaaga cctatctgat atcaacttgg 60
tgaggggtcaa gaaggggtgag aatgatctgc ctggtctgac tgacactgac aagccaaaga 120
tgaggggtcc caatagggcc tccaagatca gaaagctggt caaccttaac aaggatgatg 180
atgtacgcaa gtacgtgaac acataccgca tgacattcac taccaagaac ggtacgactg 240
tcagcacggc acctaagatc caacggcttg tgacacc 277

<210> 50410
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D1

<400> 50410

acctacgcgt acggctgatt ggttgccgtg gcagttcctt tgttttataa atactagtca 60
tgctgttggg gcaagggaaa tgacttcaca cttttttatt gattctgac tgatgcatcc 120
ttagtgtagc actttagaag gttcattagg ctgtaatat tttgcatgcc tcaagaaaat 180
cacttttcta tctagagaat taggtttagg taaagacatt tttttatctt cgaccatcat 240
gtcaagaata gtgggtatatt agaaagcatg tcgtcaatat gttgatacca ttttttttta 300
taaaaagtga tgtagcatgt cgtatatattg taaaaaaaag aacatttgca taatactccc 360
tccatttttt tatttgacgt tttgcagttc atttgtccat aagctggcgt caaataaaa 419

<210> 50411

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D10

<400> 50411

cggacgcgtg ggcggacgcg tgggcgcgga gagcgagagc ccgggagaaa cagcggcccg 60
cggcaaaatg gtgcagcggc tcacctaccg gaagcgccac agctacgcca caaaatccaa 120
tcagacccgc gtgggtcaaga cccttggtgg gaggcttggtg taccagtaca ccaagaagcg 180
cgcgagcgga ccgaaatgcc cggtcaccgg gaagaagatc caaggaattc cacacctgag 240
acctgctgag tacaagaggt ccaggttggc aaggaaccgc 280

<210> 50412

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D11

<400> 50412

cgtaaagcc caccagtaca accgcgacga gcccatcatc agcaacgcct cctgcaccac 60
caagtgcctc gcgccattcg tcaaggtgct cgaccaaag ttcggcatca tcaaggcac 120
catgaccacc acccactcct acaccggcga ccagaggctg ctggacgcga gccaccgcga 180

cctgcgcgcg gccgcgcgcg tcgcgctcaa catcgtgcc acg

223

<210> 50413
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D12

<400> 50413

ctctctttgg gctgtcagtg acagatcggt tgggtggatta agctttacta ccacagatgt 60
gggcaatgtc cttgcgatgt caggtctctt cctttttcta tatcaaatgt tgatctatcc 120
gttccttgcc aaaacggtag accacatcac attagtccgt gcagtggcgt tattgactct 180
accggttctt gctagctacc cattctttcc ttcgttgctc gggttcgggc tcatggtggt 240
agtaaattgt gcatcttttc tgaagaatac attctc 276

<210> 50414
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-B7

<400> 50414

gaaattcata ctttcaatca gagccagtat cctcgcattg ttaccgagga cttcttgcca 60
cttccaagca aagggaaatc tgggaaggat ggctgggtatc ctccaggcca tggatgatgtg 120
ttcccctctt tgaataacag tggaaaactc gacatcttat tggctcaggg caaggagtat 180
gtcttcgttg ctaactcaga caacttgggt gctatagtcg acatcaagat cctgaaccat 240
ctgatcaata accagaatga atactgcatg gaggttactc caaaaacatt ggctgatgtt 300
aaaggcggta ctctcatctc ttacgaagga agagttccag cttttggaga ttgcccaagt 360
tcctgatgag catttgaatg agttt 385

<210> 50415
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-D2

<400> 50415

caattaacta gcttcttcta gctctagcta ggctcgtctg ctgcaagaag gtaacagcgc 60
aggcatggag gggaaggagg aggacgtccg cctgggcgcc aacaagttct cggagcgcca 120
gcccacggc acggcggcgc agggcacgga cgacaaggac tacaaggagc ccccgccggc 180
gccgctcttc gagccccggg agtcaagtc ctggctcttc taccgcgccg gcatcgccga 240
gttcgtcgcc accttctctt tctctacat ctccatcttc accgtcatgg gcgtctccaa 300
gtccacctnc aagtgcgcca ccgtcggcat ccagggcatc gnctggctct tcggcggcat 360
gatct 365

<210> 50416

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H6

<400> 50416

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tcaaccaacg ctgggcgcag ctctgcatta gctactgatt ctccattctc tggaagccac 120
tatctaaaag cactggctaa agaagatcaa cctttgctcc aggtcgatga aactacatct 180
taaagtcaact gtctcccata acacccttta tgctcatttc atcagaacga tccactgtcg 240
ttcattatac actgaatgca ataaatcact cacgcctct atgaacatag ctctcctaata 300
atcgctgctc tatgctgata cctctgggtga catgctactc ttactaatgt tggcacttct 360
gaacaacgca ttctatttca agcccttaat gaaccagccg atatagatcg acaatcaaata 420
tcttaaaaca a 431

<210> 50417

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H7

<400> 50417

cccacgcgtc cgccctgcgt tgcgtcttgg gggagagaga gaagtgggag acccgcgaga 60
 ggctgccgtg tagggactag ggaccgtaga gtaagcgaca gcgaaggagg gagaggggga 120
 tggccgggat cgggccgatc aggcaggact gggagccggt ggttgtgcgg aagaaggcac 180
 ccaccgtcgc tgccaagaag gatgagaagg cgtcaacgc cgcgcgccgc tccggcgcgg 240
 agatcgagac catgaagaag ttcaacgctg gtatgaacaa ggcggcgctc agcggcacat 300
 ccctcaacac caagcgctc gacgacgaca cagagaacct cgcccatgag cgagttccaa 360
 gtgacctgaa gaaaaatctc atgc 384

<210> 50418
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H8

<400> 50418

tcttctttta acaacatccg aaactggatt cggaacattg aacaacacgc cgctgagagt 60
 gtcaacaaga ttttggttgg caacaaggcc gatatggacg aaagcaagag ggctgtacct 120
 actgcaaaag gacaagcact tgctgatgag tacgggatca agttttttga aacgagtgcg 180
 aagacaaacc tgaatgtgga gcaagtgttt ttctccatcg cacgtgacat caagcagagg 240
 cttgcggaga ctgattcaaa gccagaggac aaggcaatca aaattaacaa gccagaccag 300
 ggttccgagg caccagctgc ccagcgatct gcttgctgcg gctcataagc agatgcacga 360
 tggccatagc ctttggttat ttgacattat ttatttcccg cttggctgtt ataggaaaga 420
 tttgaagaag ccact 435

<210> 50419
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A10

<400> 50419

cccacgcgtc cgcacactcg tacgcggacg agtagtcaga cgcgtagttc tccgtcctgt 60
 tcgggtccaa gaatacgcgg tggtcgaacc tagagaacgt gctgctttgg ggatctgtgc 120

ggtagataga tgactact

138

<210> 50420

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A11

<400> 50420

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gagctgcact gccttctgtc gtacttggct cgcgtcacct cataccgggg ccgactgtca 120

cgcctgtcca tccatggcgg tgcagctgct agactgctct gtccttgcg gacacctgct 180

ggtcggcctg accgacttct gctgtcgcga accactccat ggatgctcca gcgagccctt 240

gtctcatggc gacgcgccgt tgagactccc agccgcccc gctcggagtc ctggtgtcgc 300

gatcgcttcc agccggacgg aataaccagc gatgggagaa catactgacg gacacagatg 360

atgctatgaa cgaactgaga tgacagac 388

<210> 50421

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-A12

<400> 50421

cgaacgtgaa gaagccgcgt gcgttatcct ttgagcagtt tgggcgctga gcaagtccag 60

tgagagaggg agagcggcga gaggatggct gggatggcat cgctgcaggg cgccatggcg 120

tcgctctcca tctccgcgct aggcgcggcg acggcgagca gcagcagctt ctggngcaac 180

cggctcgcca cctactccgc gccgcagcct ggggtaaggg ttatgggtcaa gatatgccca 240

attgaaatga gacttaagag atggga 266

<210> 50422

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A2

<400> 50422

ctgagaccct cgctaccag ccattagcaa attcgcttat gctgtccaag acttatctta 60
cgttatgtct gtacgctttt gttattacaa gtactcaagt tttgagtctt tgagatgtgg 120
ctatgacaat gtgatgaaga accctaaacc atcgtattag agtgaaactt gtttcta 177

<210> 50423

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A3

<400> 50423

gtggcgatgc cgccgagggc agtgccgtcg tcgtctccct tgcctattgc actcgccggc 60
gtggccatag tcgtcgtagc acttgccgtt tcctcctgtt ccgtgaccac cgatgctcca 120
ggcctgggag tgggagccag agagatgggt gcacgggacg accccaagtg cgaggagatg 180
gtgccctgca ccttcaggcg ctgcatgcag tactgcgta gcacggggct gcagcccaag 240
gggttctgca actccaagcc caacatgcag gtctactgct gctgcgatc cccctagcat 300
catagctcct cgtcaacaca cctaaatctg cagacctgct agagaagata cgatctc 357

<210> 50424

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A4

<400> 50424

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cgtgtacacc gagctgcccc agagcatggc cagcttcagc atgtcgctgc tgtacatggc 120
cttcggagtg ggcaacctgg ccggcgccct catcgtgaag gtggtgcacg tggccaagcg 180
ggcaaggggt gggaacgggc tggctcgctg acaacttgaa cgtcggccgc tacgactatt 240
actacttgct gtcacgggc tacggcgt 268

<210> 50425

<211> 254

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-A5

 <400> 50425

 tcgtcggcca cctacgtgcg ttcggcaaac gtacaaggag atggacgtcg gaggcgtcga 60
 cctagcccgc cggcgtgacg ctggagctgt cggggctggg gatccaccac gatccggaca 120
 tctggggagg cgcgcgagtt caggcctgac aggttctccg agggcgtgtc tagggcctgc 180
 aatgaccctt ggggcgttgc ttccgttcgg ttagggcccg tgcattctga tcggacagaa 240
 ctttgcgctg ttgg 254

<210> 50426
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-A6

 <400> 50426

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 cgccgaggct ttcggcgtca tcggggagat cgagttctgg tacaccgagc tgccaagag 120
 catggccagc ttcagcatgt cgctgctgta catggccttc ggagtgggca acctggccgg 180
 cgccctcatc gtgaaggtgg tgcacgtggc gagcggtaaa tgcgtgggaa cggctctggct 240
 cgtcgacaac ttgaacgtca gccgctacga ctattactac tggctgctca cgggctacgg 300
 cgtggcgaac ttcgtgtact tcgctagggtg ct 332

<210> 50427
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-A7

 <400> 50427

 tgataataag gctccagcac cgatgccaaa acatgcacga gttggtcacg agtcagagcc 60
 ttttgttgct ggcttaactt tgttctttta tgttgcaaag ataagataat gtaattactg 120
 gttatgtgat gttgcatatg atatgagaat atgaggattg gtgataaaaa aaatagtgcc 180

ctgaaccttc aggcgctgca tacagtactg cgtcagcatc cggctgcagc ccaaggggtt 240
 cttgaactcc aagcccaaca tgcaggtcta ctgctgctgc gtaatcccct agcatcataa 300
 cttctcgtca acacacctaa atctgcagtc ctgctagaga aga 343

<210> 50428
 <211> 242
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-B12
 <400> 50428

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 atctcactnc cctttgagaa ggtgtcgaac tnccaggctc atctttactc tcnnttcacc 120
 acgtgggttn gccagggagt agccgcctat tcaggaacca atcaaaacnt cattgggctg 180
 agtgcnncct gcagaatgaa gtnntgatca acgctttgcc aaggggggctc gttcnncaac 240
 ag 242

<210> 50429
 <211> 119
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-B2
 <400> 50429

gaacgaggat agcgcttggt ggcgtcgctc gaattgttcg gcgtcatcgg agagatcgag 60
 ttctgggaca cgggcggctg ctatgatcgt ggccagcttt cgtatgcgtg cactgtaca 119

<210> 50430
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-032-Q1-K1-B3
 <400> 50430

acgcgtacgc gccacatgat attatgcggg atgctgctat ttcaacattg acaactgatt 60

gtgaacacga gcgctgctgt gccatgtaac ggctgctgtt gggatgcgtg tcacacggga 120
actattattc tataccacac agaatagaga cattgctagc gtccagatag gacctacgct 180
gacattattg ctgagctctc agcatatgct gattcatcat cacagacgat cagtcctttt 240
attgatecta tccatagttt gaatatgcct aactatgaac cccagcgggtg gtcatttttc 300
agaaatcttg caaaaatga gtttccaaaa aaggatgagg cccaagatct ggcaaagatc 360
gaggaaggag tttatccctt agatcactta gagcatgata caactaatgt gaagaatttg 420
gatc 424

<210> 50431
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-031-Q1-K1-H4

<400> 50431
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ttgcatcctt gccttcatgc cactggatg gggtttgctc ctgattgcc aagctatcag 120
gcctgtgatt caaaagatcg ggctgtgggg gtcgatcaag gctcttgccc ggggctacga 180
gatcctaata gggcttctcc tgttcacgcc cattgctttc cttgcctggt tcccgttcgt 240
gtccgagttc cagaccagga tgctgttcaa ccaggccttc agcagaggtc tgcagatctc 300
ccgtatcctg ngaggacaca agaaagaccg aaggacgcgg aacaaggagt agtagggctg 360
ctgattgaag gtccgtctat cgggagttat gtcgt 395

<210> 50432
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-B5

<400> 50432
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gttggcaaca aaaagggata ttgatggcag acgtgtatct cttgggtgaa taatatatac 120
tgctagaatt aatatgggca ccaacaacga aatatctata atgttattct tcagtgtaat 180

gcttccagca tgttctgttt tagtataact aaatatctat ctttccccgc caaaaaacat 240
aaattgaata 250

<210> 50433
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F9

<400> 50433

agaattcggg ctacctgacc tggagggccg tacccaaatc ttttaagatcc atacacgcgc 60
catgaactgc gagcgagata ttcgtttcga gcttctggca cggctctgcc ccaactctac 120
tggagcggat ataaggagcg tctgcacaga agccgggatg tatgccattc gtgcccgcag 180
gaaaacggtg acagagaagg attttctcga tgctgtcaat aagggtcatca agggctacca 240
gaaattcagt gcaacaccca agtatatggg gtacaactag agagtgtctt catggaatat 300
gttgatttta gaactccggg atcttttcgg tgattgtgtc atcgtgaggt tctatgcaag 360
gattgttggt tgttttgaaa tctggatccc caaggattgc atcctgtacc acatgttttt 420

<210> 50434
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G1

<400> 50434

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gtctcgcata agaattgaag gattacttgc tgcgttcccc aaactgggtg gaactgggaa 120
acagcacact tatgttgaaa ctgaaaatgt gcgttatggt tatcaaccta ttgaaggatt 180
atatcttcta cttatcacia acaagcagag caatattctt gaagatctgg acacattgag 240
gcttctctcc aagcttgtgc ctgaatactc cccttccttg gatgaggacg gtatttgtaa 300
aacagcattt gagattatat ttgcttttga tgaagccatc tctcttggga acaaagaaaa 360
tgtgacagtg caacaagtta aacaatattg tgaga 395

<210> 50435
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G10

 <400> 50435

 gaaccctcaa aaaactaact agctagctta gctaaccccg gccgatggac atggaccgga 60
 gggttcaacgt cgactggagt gccaacgaga tcgagatggg gagatctctc atcgcttgtc 120
 acggcgccag caacagcacg aacgacgaca ttgtggatga gctccaggca atgttcccag 180
 ggaaggataa gcgccaggta actgacttgt acgttgagct tgtgggtggag atgataaaca 240
 gtggggcaga gctgagcagc aaccagctcc tgctcaactc tgggtgggggtg cacagcagga 300
 cgatggatgg gtatttagca gacgagatga aggcgaagag gatgctgctg gaggaacagc 360
 gccgtaggaa attagttgct gttcctcgac aggataacca acaacgtgca aggaggtttt 420
 ggactctgg 429

<210> 50436
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G12

 <400> 50436

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 cagagagcaa agatgtgtgg tgggtgcgac ctcgccgagc tcatcccgac cacgccggcg 120
 cgccgcggct gcgcggcggtg gcccgccggc aagtgcagc ggcggaaggc gaacgacttc 180
 gaggccgcgt tccgggagtt cgacgaggac tccgaggagg aggaggagga cgaggggggtg 240
 gtggagagca agcccgccctt cgtcgaccgc gcctagtgcg cggtgacgca tcccatggcg 300
 ctccaggagc agcagatccg gcgccaggcg cacgaccagc agcagtacat gggc 354

<210> 50437
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G3

<400> 50437

aaaaaaaaa aacatacaaa aaaaaataa taaaaactta aaacaaatat ataaaaaaag 60

ggcaggggct ctattagaat cggggctgat ttcacagtac atactgaatc ataaccctgt 120

ctatcgaagg caccaaaatt caattaactg gacctcattt tacatcattg accactggga 180

aaacaccgtc gttactgaaa taaaactgct tgaaccaa at tcaagtttac taaaatggct 240

tactatztat caagctcgga tcttagcatt tatgcctaca atgctcacc ttgatggcaa 300

atgggcaacc cccatgagcg acgcattaaa ccccgtaggt gcccttt 347

<210> 50438

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G4

<400> 50438

aatggattac gaaacatttc tatcttaaca atataacaca tgtttatata aaaaaaagaa 60

aaggaaaaaa aaaagaaagg gaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaagg 120

gcacaacaac taaaagaacc aaacttaaaa ag 152

<210> 50439

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-G5

<400> 50439

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gcagctttac aggatccact catacgcaat ccaacatgct acgctatact ttttgtatat 120

aatcacctat atactcttca ctgtccaaca agttcacacc tcatattacc tgtaaaactg 180

ttccgtaacc taattctacc ctcttactgc ataaccctct tttgccagat cctgcaaatg 240

acaatatcc cgcaccaatc ccacttcca acatttgtgc agtcctacat gccaatgaca 300

atctccatgc tcaacatcat taagtgcccg aaatctgtcc cttacatcca cccttacctg 360

ttcatttaga acaccattac cgccaccata ttcaactcca tggccttctt tc 412

<210> 50440
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G7

 <400> 50440

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 tttgattatt tctttgggta atttggtgca acatatagag gtgaacaagc ttattaaagg 120
 aagatccttg tacaatcaag agttcataca atagatgaaa cgatattgtg attctctcaa 180
 tgggtggcttc atgagcaagc aatcattcac cttgttcact aaaatttcag actgtagctc 240
 agataaggct ttgagcattc cttgctacaa tgcttccgag agaagggaaa ccggcaaagg 300
 ggaaaagaga cgaatagaag ggcattgggtg ccctctcaca cacaggccaa gtatacatcc 360
 acatgccaca aggctgaagc ttccacatga acaagagaat ggatcgtgat agctattgca 420
 agatgatgca c 431

<210> 50441
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-G8

 <400> 50441

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 gggagacggg gaattaatcc ggtgttgctt tcatgcttaa attggatctt atagtcttat 120
 tccaacacct aacatgtctc ttgttcaatc ttcctctgta tcatattgta tgcatagatt 180
 tttgatgggt cctgtgaaac cttggcataa tctatacaca tgaaataagg ga 232

<210> 50442
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-G9

<400> 50442

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ggacggctac ccgccagcgg ggtacccgcc ggccggctac cccccgccgg cgcagggcta 120
ccctccgcag ggctacccgc cgcagtacgc gcagccgccg cctacacagc agcagcagag 180
cagcggggcct tccttcatgg agggatgctt ggctgccctc tgctgctgct gcctcctgga 240
cgcctgcttc tgagagttag agggggccgac cgacggattc gacacggcga caagtgaaac 300
tactagcttt ctatgcgagg gagagagaga gagagctgga actggattga gcctggaatg 360
ctatcgtgct attctagctt tgtcagagca taatatgtcg ccctaggntt ttatttctct 420
ct 422

<210> 50443

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H1

<400> 50443

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ggtacgcact cagcttcgaa catgtagtag caacttttag atctagagcc atgtgaaaaa 120
aggcaggttt gactttaacc cagatgttta gggatttttc gagcagcaaa ctgtgacagt 180
atgtatgcat tgacaattta aagctgaagt ctggaccggg ttccatgaaa aaaaagccca 240
aaagaaaaaa aaattccaaa caattgcaca gcccaaaagg caaatggga cgcaccat 298

<210> 50444

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H10

<400> 50444

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ttttatgcgg tggaaccaca gatcatgtcg agaagattgt caaaaccctg aatgaacgac 120
acgtttcccc ttcagatgtc gtcgaggctg ttgtcagcca tgcttatgtc ttccttgctg 180

tgggtcaagaa ccatctgcac caatacttcc atgttgctgc tcacaactgc tgggtgaaga 240
atggaggcgc ttttactggt caagtcattg ctgatatgct cgttatcctt tgggtgttccc 300
tgtgtcatta ttgtacacta tgaaatgaga gc 332

<210> 50445

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H3

<400> 50445

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aacgtatcgc gcaacgttgt ccagaccaga acgcctactc aggtggccag ccacgcgcag 120
aagtacttca tcaggctcaa ctccggcggc aaggacaaga cgaggtccag catccacgac 180
atcaccacgg tcaacctgac ggacgaccag ccggcctcgc cgtcccagtc ctccctgatc 240
accagccagt cgaacgcacc agtccatct ccagctccgg ctccagccgc ggggatatgc 300
caggtcccat tggcggccga cgtcaaacga cacggtgccg gaactctgcc cttcagctca 360
ccgaaccgga cctctgcggt accggcctac aggatggagt ttcatgacca acaag 415

<210> 50446

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F8

<400> 50446

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caacaggggc caatgaggaa tcatcaaggc cacatgctat tctacaactg gctgtgaaga 120
agcatatcat tgtaaaagat accaggagac agagagatcg tgatgctaata gaagctaaaa 180
atacaaaggc tgtggggaaa atatcattta ttgaccttgc tggaagtgaag cgtggtgctg 240
atactaccga taatgataga caaacaagga tcgaggggagc agagataaat aaaagtctgt 300
tagctctcaa ggaatgcatt cgagcacttg ataatgatca gatacacatt cttttcagag 360
gaagcaagct tactgaggta cttcgtgact catttggttg taactctagg acagtgatga 420

tttcttgca

429

<210> 50447

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E5

<400> 50447

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gatgatggcg gcgatgggag ggcggtgctg ggtgctgtgc ggcgaggaga aggagcgggt 180

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cgacgtggag agcgagcgcc gcttactcgg cctgccgctg tgctccaga gcaagcgcaa 300

gtactcctgc acccgctgcc tccgcgggt cgtcaccctc tacagctgag agctcaagaa 360

cgagctacac tacgctacac atgcaccctc cgatctcttc ttgccaagcg cccgtcggcc 420

cgcccgctga cgatgac 437

<210> 50448

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E6

<400> 50448

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cgcgccgccc cctccgctg tgctgtgca ggagcctggc tacggcgggt accgtcctcc 180

atctgctggg ggctaccgag cgggggtacg gtacagcaac ctgcctcgcg ctctggcgctc 240

tgaacagacc gtccgcgtct actgcaaggc cggcgaaggg tacagcctca ccgtcaggaa 300

cggcaccgtg tgctggcgc caaccaacc caggagcag ttccagcact ggggaagga 360

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caaggtcacc ggcg 434

<210> 50449
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E7

<400> 50449

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cgcgccggcg cctccggctg tgctgtaca ggagcctggc tacggcagat accgtactcc 180
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cggcacctg tgctgtgcg taaccaaccc cagggaacgag ttccagcact ggggtaagga 360
catgatgcac agcactagcg tgaaggacta ggaaaggtag ccagcgttcg cgctggtgaa 420
c 421
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<210> 50450
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E8

<400> 50450

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cggcgagct gcggtacatg atgagccatt attttggtag cccacctagc aagggttcgcg 180
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tcattttctg aagaattctc cccaaatcct gttcacttct ttgggttcggg gttgacgggg 300
ttctttgttg ctaacgaggc aggaggtgat ccaagatctg tactacgcct tgaggacaaa 360
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ttatttcata gtggg 435
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<210> 50451

<211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-E9

 <400> 50451

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 gggcgctcgtg ttcagcgccg ggagggtccct gagccacgtc acgtggtacg ggcgcggggc 180
 cttcgagtgc taccgggacc gcaaggcggc ggctcacgtc gacgtgtacg agaacagcgt 240
 ggaggagctg cacgtgccgt acattgtccc cgttgagtgc ggcggctctgg cagacgtcaa 300
 gtgggtggca c 311

<210> 50452
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-F1

 <400> 50452

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 cgagttcatc gactccgacc cgggtctacgg gccccagctc aaggccctgc gggagtcgag 180
 gaagtttgcg ctgcgccggg ccttcgccgg cgccgtccac ctcggcggcg tcgcgctcaa 240
 gtactccaaa gcgccgcacg gcgtcgtgct ggcgaccggg ttcggggcga tcacggggcg 300
 cgtgctgggg tccgaggtgg cggagcactg gtaccagctc tacaagatgg acaagcaggg 360
 ggccaacctt aggttcatct actggtggga ggacaaggtc tcaggacaga agagctgaac 420
 catgttgaat tgaatgatg 439

<210> 50453
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-F10

<400> 50453

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cacaaggaag atagtgggtgc cagcttcagc tctgctcgct ccaaggactc aaactcaaag 180
gaaagcagca aaaggagccg aagaaaaaga gacagaagca tcacgaaagt ggactaagag 240
gatcccaaag ggtacataca tgtcacggcg atgagaggac aagctacgga caaccacagt 300
cttgcataga aagtgaagag ggagagaatc agtgagaaga tgaggggtgtt gcaagccctg 360
gtccctggct gtgataaggt cactggaaaa gccctcattt tggacgagat catcaattat 420
gtgc 424

<210> 50454

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-F11

<400> 50454

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gatgatggcg gcgatgggag gcgcggtgag ggtgctgtgc ggcgcggaga aggagcgggt 180
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gtactcctgc acccgctgcc tccgncggct cgtcaccctc tacagctgag agtcaagaa 360
cgagctacac tacgctacac atgcaccctt cgatctcttc ttgccaagcg cccgncggcc 420
ccgccgtcgg cgatgacaa 439

<210> 50455

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-F12

<400> 50455

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ggccccagcg acggctccag cgcaggcgcg aggaagaagc tccaactcac caatgagcag 120

tcgacgtgcg tcgaggacac cttccgcgcc cacaacatac tctccaacgc gcagaagcag 180

gagctcgcac ggcaggtgga tctcagcgcc aggcaggtgg aagtgtgggt ccagaacaca 240

catgttcaga taacatgttt tgcatgaact accctctgta tctaacaaaa agaagttcaa 300

gtttgcagga aacaaccaca atcgaattgt tgcaagtgcg tcccacgac tgaagacaaa 360

aagatctgtt gtccattagc aacaaagtgc tacagaggct gtgttctgtg taccagtact 420

ngatagtgag tttcagaatg aa 442

<210> 50456

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 50456

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gaactacctt ggtgtgagaa atgcagcaca gaggaagcta ctggatgagc tgggcatccc 180

agcagaagat gccccagttg accaattcac ccctctgggc cgaatgcttt acaaggcacc 240

atctgacggg aaatgggggg agcatgagct tgactacctg ctgttcatcg tccgggacgt 300

gaagggtgcag ccgaaccag atgaagtcgc tgacgtgaag tacgtgaacc gcgacgagct 360

caaggagctc atccggaagg ctgacgctgg cgaagacggg gtgaagatct ccccctggtt 420

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<210> 50457

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F3

<400> 50457

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gcacagcgaa cggggtcacc agtgccgcat cagggaaaac accggcctgg cttagctaca 180
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ctaaagaatc tccaagtatt gcatttgtga gacagatggc tacaaggaca ttgtaaatgt 300
atattttgga gtttgtaagc atcttgaatg gtgcacgtgc gatcctgcaa atcatctgtg 360
gcccattgta caaccacag attcagggaa aaaatatcga atgattatgt aatta 415

<210> 50458

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F4

<400> 50458

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gtcagactct gcggcttcat tatataagga cgatcacgtc ccgcctagcc ggaagctgct 120
gaaaagtgcg aaccacagca agagctgagc tctggagcaa gattcttcaa tgctcataga 180
aaagttgtct tgtcgaggcc ctaacctgag caggggcaat ggcttgcatc tctgtgaaat 240
ttggtcttag tgtggtcgtg ctgcatttac cggaagagct tagaaaccat ggacacgcgt 300
gataagagat aattcttagg ccgtgatgtg tgcacgtgac atggcttgtc ccccgccatc 360
ttgcaaaatt gtttatgtca gggtgattgt atctatctac atacatgta tgttatttc 419

<210> 50459

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F5

<400> 50459

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catggccatc gtgttgacac cctgccctgt gcacggacga aatgatggta gctatacatg 120
tgcacatgc cactctaac catatttatt tagtttctaa aagattgtat gcattggata 180

ttggtattgt cattattgac tagttttttt tatttcaaaa aaaacttttg tgtagagagg 240
 tgcacgcata tgccgggggtg cactatcagc cgttgcctaa gccagtgcaa gcagtggggg 300
 tatgccaaacc ctgtgataaa ctgctggaac acaccaccga atacagtttt ggacacatgc 360
 tgctgcttta gtaatgctgc tagaaaattg gcttgatttt atcactgaca gctctagctg 420
 ttggatcttg actg 434

<210> 50460
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F7

<400> 50460

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 tttctgatca gcgaacatgg gaaccgcgg cgtcgccttg ctgctcctcg cggcgggtgct 180
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 cctcctcctc cgcgggcgca acgccctggg ctcaggcggc gacgacgact ccgacgtcat 360
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 gcagaagttc accgtc 436

<210> 50461
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E4

<400> 50461

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 tgtcacaaaa ggggaaaaac tatggttgga caataagatt catgaaaaac atatgtcgat 180
 ccaaattaag cgtacatctc ttttatcaag gaaccaaag taagtcggtc aaatatatac 240

atataagtac taatatttat ggaatatata cttttacaat aaaattatta aagatatata 300
 atatagagct tgaaccatac aaaccctaac tgataatgag taaccataac atatgtatat 360
 gtactccatt cgttaccaac aataaggtgt cttacatatc aagtaa 406

<210> 50462
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C8

<400> 50462

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 ctcaaaagca tctatagcat cccttcttcc ccggtacctc tcaccagcgg cgtcttcggt 180
 atgtgaaaac ccaattcttc aaccctatac gatccaacag gcaatcagca gctggcatct 240
 tacctttatc acccttggtt ctgcaacaat catcagccct attacagcag gtacctttga 300
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 ttgctggcta ctctc 375

<210> 50463
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D10

<400> 50463

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 gaaccagtat acagtttgta ttagaggaga gaagaaaatg ctcggttttg ttttggtttt 240
 agagctttca gttttttttc ttttcttttc aatcctagtc tttgttgttt gaaggacagg 300
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<210> 50464
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-D11

<400> 50464

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 gcccgcgac cccgccgcc cgccggccat ggtggaccgc atgctccgnc tgctcgccn 360
 ctacgacgtc gtccggtgcc agatggaaga ccgggaccgc cggtagcagc g 411

<210> 50465
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D12

<400> 50465

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 aaattaatct aagaaaacag agatatggtc tgttaattgc cggctctaac taatggccgg 360
 cgataatctg ttaagctacc tcagattgac catctctatt tcttattata aactcatttt 420
 cctcgtctat tattt 435

<210> 50466
 <211> 425
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D3

<400> 50466

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caagtactac acggaatgct ttgggatgaa actgctgagg aaaagggatg ttcctgatga 240
gaagtacacc aatgccttcc ttggctttgg gccagagaac accaactttg cagttgaatt 300
gacatacaac tatggcggtg acaagtatga cattggaacg ggctttgggc atttcgcaat 360
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ccgcg 425

<210> 50467

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D4

<400> 50467

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cagcgcaaga agcgcgactt cgtcaacggg gccgtcggcg cgttcgttgc cggagcctct 180
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ttttgctgat gcaatta 437

<210> 50468

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D6

<400> 50468

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taacaataaa acaacatgaa tggactattc acaatcaaac aaacacttaa atacacatcc 120
aacacaacca acataaattt atataaacca accatacaca accttccttc accaaccact 180
ctatatacaa ctacataact atcaccattc acaacaatcc tattaataaa ctcctatttc 240
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<210> 50469

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D8

<400> 50469

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tcttcttgaa cgctatgtct agcaagacga gtagtcttga cgtgtaatct tcagacacca 120
ttgacaacgt taaggccaag atccatgaca aggttggcat tccaccaaac caacagcagg 180
tgatcatctt cggctagcag ctagatgaaa gtcgcaactt ttctgactac aacatccata 240
a 241

<210> 50470

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E1

<400> 50470

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caaaactc 68

<210> 50471

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E10

<400> 50471

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agaacaaatt ctagtcttat gatc 84

<210> 50472

<211> 315

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-E12

<400> 50472

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cggcagcggc tacggcgtgg cgcagttcct gctgtacgcg tntacgcgc tggggctgtg 240

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catggtgctg atggt 315

<210> 50473

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-E2

<400> 50473

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ccaccgncag ccgtcgaggc ctgcaccgnc ctctaatac cgnccaggcg tccacctctg 180

actgccgcc acctncagcc gtcgaggctt ctggtggaaa ctcgtttgct aagatggaaa 240

gaggcaatga ctactatggt gntaggaaaa gtgatgtggt ggcaagttac aaaactctaa 300

gtgattgccca aggtcagatt tgctcttcgg tatctgggcc tgctgcaagt gcctacaagg 360
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<210> 50474
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E3

<400> 50474

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taagagcggg gcccaatctc gacatggagt gcatcattcg cctgctctcc aataaacaga 180
agaagaagta cgacgtggac aagatccggc ggctcggcag cgtcctctgc aatccacatc 240
cggatgatgac gtaaaatggg gtgtggcagt agtttctgat ggagtgcac gcgtcaacaa 300
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<210> 50475
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C7

<400> 50475

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ccgaaggaga tgagagctgt aacatcctgg gaagacgttt agaacctggt ctgggcagat 180
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acaaaaaac tttctgaaca tacgattatg ttgctgttcc tcccacaaat gtaacttaca 300
aatctaaaaa agaactgtaa gtaaaataac gaaggctcga cacggcatgc ccgtattttc 360
ctatggctgg tgataatatt gaaatccctg aaatggctct atgaaatgaa cc 412

<210> 50476

<211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B2

 <400> 50476

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 ctttgcaacc cgtgctacaa gctttgctga caagagcttc tactcagcaa cccagagag 180
 gcatccattc aatccttgcg agaggcagtt tgtgtatggc gctgaagtca ttcttctcca 240
 tgatgacctc agcgtcttac acgatgcaac ctgcccattg accttattac ggtaatggct 300
 acccagttca gtaccaggtc tcgtatatcc actaatggag acagccaggt gcaggtgctc 360
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<210> 50477
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B3

 <400> 50477

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<210> 50478
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B4

 <400> 50478

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 tgagcatacc atacttcacc aacaaagact caattcaatt gccgcactga cccatctaca 180
 ttaactggtg tctcacactg gattacaata ccatattctc ttcattgctg agctacctct 240

atagatgcga ttaaaccatt tccattata gcatcatcat tacatactat caaa 294

<210> 50479

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-B6

<400> 50479

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accctccgca tggctaccg ccgcagtacg cgcagccgcc gcctccacag cagcagcaga 180

gcagcggggc ttccttcacg gagggatgct tggctgccct ctgctgctgc tgccctnctgg 240

acgcctgctt ctgagagtga gaggggcccga ccgacggatt cgacacggcg acaagtgaag 300

ctactagctt tctatgcgag ggagagagag agagagctgg aactggattg agcctggaat 360

gctatcgtgc tattctagct ttgtcagagc ataatatgtc gccctagttt tttattttctc 420

tctgtcaatg ttg 433

<210> 50480

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B7

<400> 50480

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atggcgattg catacatggg agatgatttc atgtatcaat tatttggaag gtacagagac 180

atggccttgg ctgtgaaaaa tccatgccat ctcaatatgg ctgcatgcct gatcaaacta 240

aagagattcg atgaagctat tgcgcagtgt agcattgctt tgacagaaga tgaaagtaat 300

gtcaaagcgc tagtcacgcg aggaaaagct aaatctgaac ttggccagac agaatacagc 360

aggaagatt tcctcaaagc gaagaagtac tccccagaag acaaggagat cat 413

<210> 50481
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-B8

 <400> 50481

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 aaatttggtg tcgaacggct gaacagttgt cctaattgta tgctataaac agagcttatt 180
 tcccccggtg ccatcgctgt atgattgcag tattttttct ctgcctaat tttatagaca 240
 tattttacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagg 300
 gagaac 306

<210> 50482
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C10

 <400> 50482

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 ctacggcaaa gactacggcc gcctcgctgt catcgctgat gtggtcgacc agaacagggc 180
 acttgtggac gcccctgata tggtcaggtg ccagattaac ttcaaacggc tctcacttac 240
 tgacatcaag attgacatca aacgcgttcc caagaagtca accctgatca aggctatgga 300
 ggaagctgat gtgaagacga agtgggaaaa cagctcatgg ggcaagaagc tgattgttca 360
 aaagaggagg gctgcgctca gtgactctga caggttcaag gtcctgctgg caaggatcaa 420
 gaagggtggt gc 432

<210> 50483
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C11

<400> 50483

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ggcatggtat tgttgatgta cgattcattc gttggaaaac ctggacgtga gtgctggaat 180

tgcaccatct ggctttttct gtacatgcct gatgtaacgg tgggtgttggtg tttccccacc 240

accacctctc ttttcacgat gatgacgcag tgcattgtata attgtatggg ttaatgacgc 300

agtgcattgcc ttgcgggagtg ggccgggtaga caaacatttc ggccggctggt cacttggtca 360

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aaaaaaaaa gggcgg 436

<210> 50484

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C12

<400> 50484

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agactatcca catgcttttcg ttttgattct atcacgaacc agcaggatgc tcaaagtgcg 180

ataaatgact tgaatgggaa gtgacttcgg aaccactgaa ttcactgcaa ttgtgcaacg 240

aaaggtgcta atgctgggtca agagaaacag attctgtaca ctaatgttga cctgtccaat 300

ggctcatgag aatctggaca agagaatata catgaagatg gatctgaaaa t 351

<210> 50485

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-031-Q1-K1-C2

<400> 50485

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cccgcgatgt gctactgtat attacacgaa gacaacgtct tgggagctat attcagcctg 120
 gggaaagaga tgagggctgc aacgtcctgn gaggacgttg agaacctggg ctggggagag 180
 ctgaaccggt accaggactc tgcagttcgc tcagcataac taaacaccag caaaaaaaaa 240
 aaaaaaaact ttctgaacat acgtgtatgt tgttgttcct ccgacgaatg taacttccaa 300
 atataaaaaa aaagtgtagg gaaaataacg aaagctcgac acggcatgcc cgtattttcc 360
 tatggctggt gataatattg agatccctga aatggttcta tgaaatgaac cgcagaccgt 420
 tgaaatcggt tc 432

<210> 50486
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C3

<400> 50486

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 cactactctg gatatgcagg attctgaggg gtgtactaag tataacctaa caagggtaaa 180
 ttggacggat tcggttgcag gccaccaca cttgtatggg cctggagagg tatctgcgag 240
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 ttctcctgag tgccttgagc ctttgatgga gattgcagac tcagtcatcc tacgtgacta 360
 gtctgaagca gacaccattt gacggtcgga gtttgtacac tgaaatgaat g 411

<210> 50487
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C5

<400> 50487

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 ctggtggagt gaagaagcct caccgctacc gccctggaac tgttgccctc cgtgagatcc 180

gcaagtatca gaagagcact gagctgctga tc

212

<210> 50488
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-C6

<400> 50488

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acccttgagc tgatgccctt cagccatgtc cttgccacca agcttgggtgc tcgtctcacg 180
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gtggagtacc gcaacgaggg tggcgccatg gatcccatcc gtgtgcacac agtcctcatc 300
tctaccagc acgacgagac agtcaccaac gacgagattg ctgctgacct gaaggagcac 360
gtcatcaagc cagtcattcc cgagcagtac ctgcacgaga agacaatctt ccacctcaac 420
ccgtctg 427

<210> 50489
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B11

<400> 50489

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catccaggag atgttccggc gcgtgagcga gcagttcacc gtcattgtcc gcaggaaggc 180
cttcttgac tggtacacgg tggagggcat ggacgagatg gagttcaccg aggccgagag 240
caacatgaac gacctcgtgt ccgagtacca gcagtaccag gacgccaccg tcgactagga 300
gggagagtac gatgacgagg aggagggaga tctccaggac tagaataggc tgcttcacat 360
tcagtcaccg ccagtctatg aaaaactaat catttgctgc ttttcgtcgt cgtcgtagta 420
gtagtaggtc 430

<210> 50490
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H2

<400> 50490

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cattacaagg gacctgttga gaactctgac ctaccttatt tgtccctgtg gaacatgggtg 180
ctgtcatgat cgatattttt gtatggccag ctcgtgggat tatacatgaa gcatgcctgt 240
t 241

<210> 50491
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H4

<400> 50491

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tgtgtctggt atctacctga ccgtgcatct atctgatgct ggtcttttaa tagaaaagca 180
agcttccggt gaaatttatt gtcaatgatg gcttacgtat aaaggttaaa aaaacggcgg 240
cctttttac 249

<210> 50492
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H5

<400> 50492

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tgaagctctg ctacatgtct taccggatgg aatccactaa cgtgtctatg ccaacgatat 180
tcaggactat attctatggc taacaagggtt tttcatctag atcatgggat tgtcatcaac 240
atcctcatca atgccaatcg tccaggttac catgtctaca atgctac 287

<210> 50493
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H6

<400> 50493

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tccgaggctt gatgctaact ctcaagtact tctttgatag aaatgtcaca attaactatc 180
cgtttgagaa gggtcctctc agcccccgct tccgtggtga gcacactctc agacgttatg 240
aatctgtgta agagcgtgc attgattgta aactatgcga atctatatgc ctagcgcagg 300
caattactat cgatgctgca aaacgtgaat atg 333

<210> 50494
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H7

<400> 50494

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tactagagat taatggccta aggttagcct acagccttca acatgcagat tgtgctggag 120
ctgtgttcta ttctgtcatg aagagtgcac tactggctgc acaatctagt aatgatactc 180
ttttgaagac aactgctgat gcacttggca agtgggaagga tcttttgccg aattacacca 240
agacagttga tgaagagatg gagatacttt taaagtttga tgatatgtgt caagagacca 300
aagtagatth tgcacgggtg tttccaa 327

<210> 50495
<211> 364
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H8

<400> 50495

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tcaacttcga cgccttccac ggcgacaagg accacggcgg cgtgcgcgac ggcaccaaca   180
tcgtgctctg gaagtgggtg gagggcgaca accagcgtg gaagatcgtc ccctggtaaa   240
tgtgctgttc tgtggctgca ctggatcat ccatgatctg gagctttgaa ggcataagcca   300
cctgtgggca gcagctgctg ccgtgttgct agaataaagg tgggtggcgat cgatcgatcg   360
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<210> 50496

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H9

<400> 50496

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caccaccgga gaagcaaaca ggctgtaaag gaaccttaat cagttagatc acgaggtcaa   180
ccaatgtgat tgggacaaat tttttcgtac cttttggtac ctctggcaga ttagtccatc   240
atagcgagct ctttgtttgt tgatggtttc tttgctgtgt aacaatgtat cggttttattc   300
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<210> 50497

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A10

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 aagaaggttc gataccagag cgggaaatta ctctcagagc agcgttcacg ggtcaagggc 300
 cagtttggtc gtcaagatca tagcatccaa tgaagctaag gtccagttac tgagctggaa 360
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<210> 50498
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A12

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 tacgtcggca aagaccacgt tggggatgtc cttttgtcca agaagatagc cggcggcttc 360
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<210> 50499
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A2

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 aatggtgcgt gtgcaagcag gacgcgttgc aggccgcgct tcagaagacc atcgactacg 240

cgtgcggatc cagggcggac tgcaacttca tccatgagac cggagcgtgc tacaacccca 300
acaccgtacc tgcgcactga tgctgtgccg tcaacagcta ctaccagaac aacaaggcca 360
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cgggc 425

<210> 50500
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A3

<400> 50500

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atcccaccaa tccaccagat gctatccaag aaaggactct atacaaccaa actccgactt 180
cgagctacat cgatccatag atggtcccg actcgaatac cacgcttgct atccatgacg 240
acgaacccat cgtctcctat gtagatcgat cgatggccac agacacataa tcaccgacgc 300
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<210> 50501
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-A4

<400> 50501

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cagtcgtatc atgcatggcg tgcacagga ctggttgatga tagtagcaac gtgatgctcg 180
tgctgtaat aagaacaagc aagcgatgtg tgctgtgat gtaccggtgt cgtcagtgtt 240
ataagtactt ggggtcaaaaa aaaaaaaaaa aaagttaaaa ataaacaaaa aactgataaa 300
taaataaaaa aaaagggcgg c 321

<210> 50502

<211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-A5

 <400> 50502

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 caaactacag ttataacaga ttcagcagtt tttgctatga tatctcgagt taacatggtc 240
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 atggttgcac ttgctgctca aaggcatgct gtgccttttg ttgtggttgc tggtagtcac 360
 aagctgtgtc cgttgtatcc acacaatcca aaaagtgttg tgaatgaac 409

<210> 50503
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-A8

 <400> 50503

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 tccaacgcgc gggtcgcact ctacatcttc ctcatcatcc tgcctttcct cgtgctgtgc 360
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<210> 50504
 <211> 382
 <212> DNA
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<223> Clone ID: LIB3079-031-Q1-K1-A9

<400> 50504

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<210> 50505

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-B10

<400> 50505

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catacactta ctaattaata tataactata ctttatatca ataaaaaac acttctaata 180
aatacacata taccataaaa aatactacct aaaactgaca caacaagaat caattactaa 240
ctatataaaa atagcattca taaaggacac tatcaacatt tttctaaaca atggatccta 300
cgctaacttt gaaaaaatgc aaataccaa 329

<210> 50506

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H12

<400> 50506

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agattggcgg atggaatgct accataattt caaaggatga attgagcact cagccttcta 120

ttgtatgcga gatcgagcca tctcttctgc gctcatgtga ggagcgggtg aaggatgtcc 180
aagggagggg cgaagtgtg tctgtctcca cgcacgtaga aagtggccca tctgtggaac 240
aacacaacag tgtggaagtg ccacacgcgg ctctgtaaa ggaacctgat gctgttgctc 300
agataagtga gaccatgcag aaacagagca tttctactga aagccagggc aatgcacaag 360
gcaag 365

<210> 50507
<211> 392
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-030-Q1-K1-F2

<400> 50507

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gccgccattc ccgtcaagc agccgtcagc agctccggcc gcgcgcgccc cgccgcagct 120
cttcagctgg ccggggccacc accagccgca gcagctcccg tcgcccgcgg gagcgtcggc 180
gctcttgccg cccggcccgg gcgcgttcca cccgtctctc gcgcgcccga tgccgtcggt 240
cccaggcggc aaggacgagg gccacatgtt ccacctnccg ccagcggcgc accacgggac 300
taacaagcag ctgcgtgagc acatggacga gcacaaccac caccagcagc acccgatggg 360
gggggcccgc ggcgactcgc ccgacggcga cc 392

<210> 50508
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-030-Q1-K1-F6

<400> 50508

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atgtgcaagg ataagatgac tatcgggacg aggtatgtgg agctgttccc gtctacccca 120
gaggaggcga gcagggcgag aacccgaggc aggcattgaa gaaacgaatg gcttggctga 180
atgatctctg gttgcatgtg gctgcaatcg actgtagttt tcacttcgca tgcttatctg 240

tatcgctttt agattgtgtt agttgtgtgt atttgacttc ttatatgcga actgaactgt 300
aacaactntc ctttgttggc cggccgcaca tgtacggcat aatcatttat ggattttgct 360
acgtttgagt ttc 373

<210> 50509
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F7

<400> 50509

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gggaagctta ttgcaaactt gattgtcatg ggctctacga ttataggaag agctatgctt 120
caggcatatc gtaaagcact tgataatgca aataaaactg gtgtggccca tgaggcaata 180
aacaatattc gtagagcaag caaaacaatg accgaacagg aagcgaggca gatactgggt 240
gtctcagaga attcgacgtg tgtagagatc gtacagcgat actataacta gtttgaaaag 300
aaacggctat ctgggatctt ctacctacaa tcgaaag 337

<210> 50510
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F8

<400> 50510

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atgcttttgg agatggatca gacggagggt cttcacctgc tggagtcgcc agatgctctg 120
aaagccaagg ttgctgaagc catggagggt ctcgcgtctg cccagcatct ccagcagagc 180
aatgtttcta ctgagcagca gctggcta atctcattga atgatggcgt cgtcttcagc 240
tgaacgttaa tgtttctgat gtttcggaag tgctgccagt ttttgcttga atactac 297

<210> 50511
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G10

<400> 50511

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gattctttgg atttgcagtg gcagccaatc tgatgaggga cctcttgcca ccaaagtacg 120
gcaaattgggt tccattacca atggcaatgg gggttccctt cctagttggg gcgagctttg 180
ccatcgacat gtgtgtgggg agcttgatgg tcttcatctg gcacatcatt gacagaagta 240
aagcatcttt aatgggtgcc gcagttgcat ctgggttgat atgtggcgat gggctttgga 300
tcttccctga atccttgctt gccttgacca agatcagtc accattgtgc atggcattca 360
ggtcttcaca ctagagtaac aaaatgc 387

<210> 50512

<211> 377

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-030-Q1-K1-G11

<400> 50512

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gcctgtacag ccagcaaatt tgcttacagt cctcaaagct gtgacaaact tgtttgga 120
ctcatgcttg caccagtggc tgaggacca ctgtgctgag atcattgatt cggtgtcaaa 180
ctgcaagtct tcttttagca agaatgcaca cttggcatat gccacgcttc tactgaacta 240
cgctgttctt tcgattgaat caaaggagga acagagtcag gcgcagattc tttctgccgc 300
ccttgaaatc gccgaagatg acaccaaga tttcgactca aagtaccggg cacttgctgc 360
aatcggnctc cttatgc 377

<210> 50513

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G12

<400> 50513

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tgacagcttg aaggtgtctg gtgatgtctg gtttggctct ggaattacac tcaagggcaa 120
 ggtgacaatt atcgccaagc ctggagtga gttggagatt ccagatggag acgtacttga 180
 gaacaaggat gtcaatggcc ctgaggatct ttaagcaatg tttgtcatca ccagtttttc 240
 ccaaggacat gtcacaggaa ctgccgagcc taatcactcc tactgagctc tatatTTTTTg 300
 taatTTTcat gtgcattccg attccgctgc gaggggtcatg tgagcccgt agagaataat 360
 tggaatcttc ttt 373

<210> 50514
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G2

<400> 50514

ggcgctcaa gggctccacg ctgctcaccg aaggcgcgat gacagaaggg tcagacgagt 60
 gggcgatcta cggtggaact ggagtgttcg cgatggcgag aggcgtcata aggagaacgt 120
 ttcttgccga cagcagcggc gggaactccg acgagcttgc cgtggagggtt ctctgcccgg 180
 tgttccgcc ggcggcgttt ggctcatcgt cgtcacagcc agcagcaaag gacatcagct 240
 ccaccgtcgt cgtcaccaag gtcggagtgt ggggtggaga gggagggtcg gcgcatgaca 300

<210> 50515
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-G3

<400> 50515

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 gcgtcgagaa gatgctcgcc gtgctcgaca ccaacatcct ctgggtgaac cctgactgtg 120
 gtctcaagac acgcaagtac acggagggtca agccccccct gaccaacatg gtctcggcca 180
 ccaagctcat ccgcacccag cttgccagcg cgaaatgaag tcgtttgata gctccatggt 240
 ctgatagcgc ggaatgagcc agttgttttg aataatttgg gtgttacctt ctgttccatg 300

gtgttagtgt taggttagcc tctcattggt gagatacgcc gtttcaagat gtgttctaag 360
 tttggagtgt gtgttntcct ttgggctatg tttctggggg tatgtgtgtg ctttggttat 420
 taacaggaat gaaatatgca gtcttc 446

<210> 50516
 <211> 148
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G5

<400> 50516

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 tacactattg tgactgttgt caattcgcaa ctatttggtg acatcaatgt tcttaagtct 120
 gtgccaattc aggtgactga cgatgtaa 148

<210> 50517
 <211> 153
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G6

<400> 50517

aaaaaaaa aaataaaaaa aaaaaataaa aaaaaaaaaa aaaattaaaa aaaaaaagga 60
 aaaataaaaa aaaaaaaaag aaaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg taa 153

<210> 50518
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G7

<400> 50518

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 cggcttcacg cagagggcgt tcttgggcag cgtcagcaac cactgcgcgc agaactgcaa 120
 atgcccggtc ctcatgtca agaggcccaa ggagtagaag gttcctcgca tgtaacgctg 180

cagcttagcc aataatgttt catggcgacc atataggeat atatgtacac acttcacatc 240
ccattgcatg gcagtgtctt ccctagttca acaactaact ttctgcttga ataaagtgtt 300
caaagtttag acagaatatg tactgtacat actatcttct tgcatttggt act 353

<210> 50519
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G8

<400> 50519

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gtctcccccg ccgccggcaa gtggttcgcc gccgtgcgc ccgtggcgc egccgccgcc 120
gccttctact gagagaaggg agatctgcac tgccccgtgc tgtaatttat ttgttatccg 180
tgttgagccg ttgattcctt ctttgttttt cttttcacca ttttttttct tccatccgaa 240
tatccatatt ccattcggca ttcgattcag taggactggc ggcattctgtt cgttcgtgtt 300
gctacagtgt aggaccgtgg ctccgacaga ttggttgggc tggctcgggtg gtgttgtgct 360
ccggtcatcc atttgtataa taccctgttg agtctctttc g 401

<210> 50520
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-G9

<400> 50520

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aaggagcaag cggagaggag ggagacggcg aagcaaagt tggagttggg tcaaaaggcg 120
tacgggaaag gaatgtatgg acgatcaatt gaattcttgg aggctgcgct cactatcata 180
cgtccctcct ctctactcgg tggcgagatc caaatttggc ttgcaatggc atatgaagcc 240
aataggaggc acaaggattg cattgcattg tacaagagt tggagagtag ccaccccatg 300
atcaacatca ggcgccaggc agctgagctt agatacattt tagaggcacc caagttgaag 360
atatcaaatg acgaggtggt cacaatacca caaattggga gcagcttgga ttggtatgct 420

tgaacatgga gtagacaaa

439

<210> 50521
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H1

<400> 50521

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tggagtgaag cagatgatgt gctgctgcaa caagatggat gcaaccactc ccaaatactc 120
caaggcacgt tatgaagaga ttgtgaagga agtctcatcc tacctcaaga aagttgggta 180
caaccctgat aagattgcct ttgttcccat ttctggtttt gaggggtgaca acatgattga 240
gaggtccacc aaccttgact ggtacaaaag cccaaccctg cttgaggctc ttgaccagat 300
caccgagccc aagaggcctt caaacaagcc cctgcgtctg cccctccaag atgt 354

<210> 50522
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-H10

<400> 50522

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ttgcgtcgtc aagctttgga tttatttggt aacaggatag cttcacaccc tgaactcaag 120
caaagtgatg tcttgaggac atttttgcag gcagatgaag agataatgga tagggcaaga 180
tcttatgaga ccggtatfff taagaaacca tcagatffff tacagatggt taaggacgta 240
cagtcaaaag tcagtgatgt tggtctggga aaagaaaagc ccgtggagga atctactcct 300
gaatatgaga agcttaaaag ttacatattt gagctagaaa ttcatttagc agaggcccaa 360
aaacaagc 368

<210> 50523
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F12

<400> 50523

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taattcagcg actgcagaaa attgacaatg ataactaccc agagactcta taccaaagt 120
ttattgtcaa tgctgggtccg ggtttccggc tactatggaa cactgtgaag tcctttcttg 180
atcccaaaac taccgccaag atacatgttc ttgggaacaa ataccaaagt aagctgcttg 240
aaataattga cgccagtga tggccggaat tccttggtgg cacttggtacc tgtcctgaat 300
acggaggctg ccttaaggct gaaaaggac catggaagga cccaaacata cttagatag 360
t 361

<210> 50524

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D2

<400> 50524

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ggtgatatcg gttactaact gtagaatata cgtctgttga gatgtcctag tatgactggc 120
ttcggcgggc agctgatttg tgttttgctt tttgttactt attgccaaat ttatagaggt 180
tgatttgagg tgccaacaat ttatagtaaa aaaaaaacca ctgatacat 229

<210> 50525

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D3

<400> 50525

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cttcctttac aatagacgag gaaattttca actcccgat gtgattagaa ttgcatctga 120
tgtgtccaag ggaatgaatt acttgcatca gattaatatt gttcataggg atttgaagtc 180
tgcaaatctt cttatggatg atcaggttgt caaggttgca gactttgggg ttccagggtt 240

aaagac

246

<210> 50526

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D5

<400> 50526

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atgtcatcgc agacataagc catttcacgc aggagcttat tgtcgttaat ggggcgaaag 120

cattcgtggt cgccaataac tttcccggtg ggtgtctggc atcataccta agtaggttcc 180

acagtgcga ccatgaggac tacgatgagc atgggtgcct taagtcgttc aatgagttct 240

cccaaaagca taatgagcaa ctttattctg ccatcggaca aatcagatac tcttacccaa 300

atgtgaaggt aatctatgct gactactaca actccaccat ggaattcatc aagaagccta 360

gtagatctgg tattggtgac cctttagtag cat 393

<210> 50527

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D6

<400> 50527

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ttgggcgtgc tgctgtcca ccccttcaac gcgtacctgg agcaggagct ggaccgccgc 120

ttccgcctgt accgcttctg ggagacgcc cgcgaggagt tcctccgcgc gcacgcgggc 180

gccgtgcgcg ccgtcgtcgg caacgccagc tacgggcgcg acgccgcgct catcgacgcg 240

ctcccggcgc tcgagatcgt tgcctccttc tccgtcggca tcgaccgcgt ctacctcgcc 300

aagtgccgcg accgcgggat ccgggtcacc aacacccccg acgtcctcac cgacgacgtc 360

gccg 364

<210> 50528

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D9

<400> 50528

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gcgccgcggc agcaactgct cgccgattgc ggctgctggc ctggccctac tacattcttc 120
tcgtagccgg gtgcttccac tggatgggaa cgggggggttg tcacactggc tttttc 176

<210> 50529

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E2

<400> 50529

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aggcgggttcc aaggcatgga gaggagtgcga gaacccacc gaagatgacc tcaagttctt 120
ctacgacggg caaggcttca tgtccctcca gctagaccgt aaccaaacca agttcacctt 180
ttacgatgtc gacgggaagg cgctgtacag ttacacacgg tcgagcctga tggaacaggc 240
cacaacttcc aagcttccgg ttacgtcaac gaggaatgaa gcaggggcga gtcaacatgc 300
accgcttggg aactgagatc gaatcagttc aagcgtacgt attaaatctc gagtgccttg 360
tgtggttcat ctgtcaaggg cacattttta aagtagtggt tgtatctttt gtgttgaaat 420
gtacaatgca ttgggagctt aaaaaatggg tgatgaat 458

<210> 50530

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E3

<400> 50530

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gggtcaatcc aaacctggg ggggca 86

<210> 50531

<211> 132
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-030-Q1-K1-E4
 <400> 50531
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 taataccact at 132

<210> 50532
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-030-Q1-K1-E5
 <400> 50532
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 ttcaagctca gggagcagcg cgtcatcggg acgaacgacc gcaccgtggt cgtcagcacg 120
 gctcacggcc tcaagttctc gcagtcgaag atcgactacc atgacagcaa gatcgaggac 180
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 gatgtgctga agaagaggct caagggcaag ctctgagcgc ctgtgcctgg ctaatgcaat 300
 caactgattg gaatgcagtg gtttcgtcgg tatcgggggg tcttttaggc ttcagaaatt 360
 ctgtctgggt taggctatct gttt 384

<210> 50533
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-030-Q1-K1-E7
 <400> 50533
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 taaaaactca cctctatgaa cgtggatctt actattgctt tgaccagaa tcttgggaca 120
 caatacgcaa ggacaacttt gttctccact atgagatggg agagaaaagg ccagttctgc 180

cttcaacatc accaaacctt agatgaaaag aaaatctagg acggggagag gaacatagaa 240
 acatataacg atctgcagga aggactaagg aggcaggaag tcgcagaaca gaattgggga 300
 tgtccaatta acacccttg taattactaa aactgtgagc gaatgttgcg tttttcttgc 360
 actccccct tcgccctcct aattaaactg cctaattgtc aggattagtt tttctccagc 420
 tttaaaataa caacgcatag attgttttga ttgtc 455

<210> 50534
 <211> 57
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-D1

<400> 50534

aataaattat caaaaaaaaa aaaaaattat atattaaaaa aaaaaaaaaa aggacaa 57

<210> 50535
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-E9

<400> 50535

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 atcctctaca ccgcgctctg ccacaccgac gtctacttct gggaggccaa ggggcaaacc 180
 ccggtgttcc cgaggatctt aggacacgaa gcgggaggca tcgtggagag cgtcggagag 240
 ggcgtgaccg agctcgcgcc aggcgaccac gtctctcccg tggtcaccg cgagtgcaag 300
 gagtgcgccc actgcaagtc ggaggagagc aacatgtgcg acctnctcag gatcaacgtc 360
 gaccgcggcg tgatgat 377

<210> 50536
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F1

<400> 50536
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ccgagaccga gggaaggacg ggtcatattg tacaatcttg atccagctgc tgagcacttc 120
gactatcctg tagatatgga tatcagagag ctgatttcac tggatgatgt tatggaggag 180
attggggtgg ggccaaatgg cgtctcatc tactgcatgg agcaccttga agacagc 237

<210> 50537
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-F11

<400> 50537
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ctcctctctc tctgggtctg gagactgccg gaggagtgat gaccgtcctt atcccgagga 120
acaccaccat cccaccaag aaggagcagg tgttctccac ctactcggac aaccagcctg 180
gtgtgttgat ccaggtgtac gagggcgaga ggaccggac ccgcgacaac aacctgcttg 240
ggaagttega gctctccggc atcccaccgg ctccccgtgg tgtccccag atcacggtct 300
gcttcgacat cgacgccaac ggcatcctga acgtgtctgc cgaggacaag acgactgggc 360
agaagaacaa gattaccatc accaacgaca ag 392

<210> 50538
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B12

<400> 50538
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ggatgaagca catgcggtcc ttcgcaaaca tctgcaacgc tggcatcctt cctgaagcag 120
tgtcgaaggc cgctgctcag gcttgacca gcattccttc caacccttg agttctatcc 180
acaagggttt tagcgcctaa gaatcataag gtgaggcgaa atatttcagc cgctccaccg 240
caacgaactg gtttacatta ccagtcctca cgggggtcct agttcttgaa ccatatgtga 300

agcagactta taccactatt atagct

326

<210> 50539

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B3

<400> 50539

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aacgccatgg gtggtgaggg ccatcaggcc cattcagctg gctgtagcta cgactgtggt 120

ggtggctgct gcagcagcat ggtcatcgaa tgctccaatg ttaacaactt ttactccatg 180

tcctgcagct gtggctctaa ttgtggtctt ggacgcagca gtggcatggt catcgaatgc 240

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<210> 50540

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B4

<400> 50540

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gtcgagatgg ccgacgggga ggacgccgcc gacgcgcgcc gccggggccgc catcacagac 120

taccgcaaga agctgctcaa ctgcaggag ctagagtcgc gcgtcggcac cgtgagagaa 180

agccttaaaa ctgcaaagaa ggattttacc aagactgagg acgacttaaa gtctctgcaa 240

aatgtggggc aaataattgg agaagtactc cgacctcttg ataatgaacg cttt 294

<210> 50541

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B6

<400> 50541

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ccattgagag ttagacgggg accttcttat ttcaagctga catcaaccat ctgatcttac 120
tcatcatcaa caccttctac tccaacatcg agatcttcct acacgagctt atctccaact 180
cttiacgatgc tctgtacaat atcacgttcg agagtctcac tgactagagc aagctcgatg 240
ctcagtctga gcttttcatc caccttgtcc catacaatgc cacgaacact ctctccatca 300
tcgacaacgg cttcagcatg accaagtact accttgtcaa caacctcggt acca 354

<210> 50542
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B8

<400> 50542

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cgccaagatc ttacaggagg tcgagcacgg gttcgctgc aggttcaaca ccaccgaccc 120
tttcgtcgtc aagaccgcag agacggccct cgctacatg gtcagctggg tcaacaagca 180
cctcaactga atgaagcctg cactgtactc accagactga attcaataaa ccactgcaat 240
gctgtgatat tacgtgtcga ttcattggctc cccacattga ttcgtcatgg ctaagacctc 300
tactactgga atttccttca ttctttgtct attcaaactc tatgtattac tgcatatgct 360
tggtatgatc gcaataaagc tcattagggg tatacacctc ctggacgctt taaaa 415

<210> 50543
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C1

<400> 50543

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cggatgcggc gctcctgctg ctgctgctga cggcgagtag cgtcggcgct gcacggggcg 120
cgccgcgggt gccggcggtg atcgtgttcg gggactcgac ggtggacacg ggcaacaaca 180
accagatccc caccctgctg cgcgccgact tcccgccta cggtcgacgac atgccggggc 240
ggccgcgcgc caccggccgg ttcggcaacg ggcggctgcc cccggacctc 290

<210> 50544
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C11

<400> 50544

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aagcgccctc cctccggctt cttcgtcttc atgtctgaat tcaggcagga gtaccaggcg 120
cagcaccctg gcaacaagag cgttgcggcc gtgagcaagg cagcagggga aaagtggcgc 180
tctatgtcag agcaagagaa gcaaccctat gtggaccaag ctgggcagaa gaagcaggac 240
tatgagaaga ctaaggcaaa tattgagaag gagagcacia gctcaaagaa ggctaagact 300
gatgacgacg atggctcgaa gtccgagggtc gatgatgagg atggcggtag tgacgaggat 360
aacgacgacg acgagtaaat aggatt 386

<210> 50545
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C2

<400> 50545

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ctcgtttgct cacagctgac tatcaagttg gttaatgggt gtaccgttgt ccgagtgttg 120
atccacttaa atatattcga atagcatatt tttgtgacat ggcatgctac tggcatgaac 180
ctttgcaagt catgggatgg aagatcattt tgggtttttg aaaaccttta ctatgtgctt 240
ctcattgata gcatgttgca caaatgctct gatgtgttgc taccagagaa attag 295

<210> 50546
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C3

<400> 50546

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 ttcaagaaag gtagcatact ttggcacaat ttgctatgga agtggctaga gaatcacaag 120
 tgaggaatgt tgaaggatga attggagcag aaaattaagt attggtggtg aggatggtga 180
 aatctgcatg gaaatttcct caaaacctga gagcttcaaa tgttattggc tgcttcacgc 240
 gctctttggt tttcaaccat actgtgactt gtgttttggt ctaggatggt gtggctataa 300
 acaagtggag gtttatggag cta 323

<210> 50547

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C4

<400> 50547

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<210> 50548

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C5

<400> 50548

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 cagcattttg cggctaaccc cgcaacccta ttacaactac tacaattgct gccatctgtc 180
 caacttgctt cgacagaccg agcgggctgc taccaacaac acatcattgg tggcgcctc 240
 tgttagattg cgtattgatt gtaattcaat agta 274

<210> 50549

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C7

<400> 50549

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aagtgcacatca tgcttagata tgctgctcag attaactaat gtacgatata agtactgaca 120
agtaatgaga tagattgcac aaaatcatga acttctttca aattcatctg ttttcttgct 180
ggtatacaaaa gaccaatatg agttatgcac gaaaattcat atgtttctgc ttaaaagaag 240
ggaattcatt tgtgaagtat gttatcttca gacttgcata tgatgattgg tttctcgaat 300
gatgtttcta gggatgctct tatgtgaaat a 331

<210> 50550

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B11

<400> 50550

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cagattgatt agaagggtga gcttgtatga tttgtacgta taataatgtg ctggatgtat 120
tgtaatacac ggctatgcat attgcaacac ctaccatttg ccgttaccta tcttgagtgc 180
gtcctaaatt gtaattgcag ccaagcagcg aaatgtgtag aactaaagaa ccctgagcgt 240
caaaaaaaaa aaatataaat aaatgaatca aaaaattgat atgataaacg caaaaatatc 300
tactaatgaa atttccataa taagttaaag ggtccaaact tgttgggttt ctaaaat 357

<210> 50551

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-C8

<400> 50551

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atccctgaaa agcatcaaaa aggctgttg gaattctact tgtgaagggt gtgagagccc 120
aaaatctgcg gaagaaggat ctgctgggta aatctgacct atacgtgaaa cttaagatgt 180
cagatgataa acttgcattc aagaagacaa ctgtaaagcg cagcaatctc aatccagagt 240
gggggtgaaga cttcaagttt gttgtgacag atccagaaaa ccaggctctt gaagttaatg 300

tcttcgactg ggaacagggtt gggaaacatg aaaagatggg aatgaacatg atcctactta 360
gagaact 367

<210> 50552
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H3

<400> 50552

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agcaagttag aacgagcaag agaacttttc catgaagctg tccaacaggc tcctccagag 120
gaaaagaagc ccctatatattt acaatgggca aaactggaag aggactatgg tcttgcaaaa 180
cgtgctatga atgtatatga tgaatctgta agagctgttc ctggcagtga aaaaatggcc 240
atgtatgaaa tctatatagc acgtgctgcc gaactctttg gtgttccaag gacatgacaa 300
atatacgagc aagcaattga atccggccct ccagacaaaag atgttctgac aatgtgcatg 360
aagttcgctt agctagagag aacccttggg gaaattgatc gttcgagtgc catctatgtg 420
catgcattc 429

<210> 50553
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H5

<400> 50553

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gttgaacgat ggtggatcga tggagaccaa gaacgatctc tccgccgaca gcggcatgac 120
gatggagacg acgaaccgcg gagcgcagaa gcgccactgg ggacactacg cggacgagag 180
cctgcacacg cgcattgaagg cccacgcgca gctcgactac atctacacgg acgacgccgg 240
cgagcgcgga tactaagcca ccaggatgga gtatgccggg gctgaggaca a 291

<210> 50554
<211> 391

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-H6

 <400> 50554

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 cctggcttta caggttacag acaaaccggt agctgttggt ttcggtgtat cgactccaga 180
 gcatgtgaaa cagatcgtgg gctggggagc gtacggtgtg attgctggca gtgcgattgt 240
 gaggcagttg tgtgaggctg ctactcctga agagggtctg gaaaggctcg aggagtacgc 300
 caggagtatg aaggctgcta tgccgtgagc tgatctcact tctcgtcaca ggcacgttaa 360
 atagaacatg gttttagcaa tattctgggc a 391

<210> 50555
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-H9

 <400> 50555

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 attgttgaag aatttatcag acaggatagt aagaatgcc agagacataa tgggtggcgaa 120
 gtgaatgacc atgtatcagc tctagtga tcaatgatta cagtggcaaa gattgttgat 180
 gggatatctg cagaggttgc gaaggaccca aatataccgg tctacaagtt tttcagtctc 240
 gctgagacag tctcgccaa ttcaaggcca gtccatgacg ggctctatcg cgccattgat 300
 atgtatctga aagagcacc aagcttgggc aagagcgaca agaagaggct ctgtgccctc 360
 atggactgca ngaagttgtc gcccgatgca tgcgc 395

<210> 50556
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-030-Q1-K1-A10

<400> 50556

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accacggcgg cggcggcggc agcgtgtctg ctgctgctcc tcctgtcgct cgccgcggca 180

gcggacatgt cgatcgtgtc ctacggggag cgcagcgacg aggaggcgcg gcggatgtac 240

gcggagtgga tggcggcgca cggccggacc tacaacgccg tcggcgaaga agagccgcgg 300

taccaggtgt tccgggacaa cctncgtac atcgacgcgc acaacgccgn cgnccgacgcg 360

ggcg 364

<210> 50557

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A12

<400> 50557

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atccatgttg ggatccagca taaggacact aaggaagact ccatgaagtg gttccaggtc 120

aagttccagg gtgtgatcct caacaaggcc taatccaaca cctcctaagc ataagcatta 180

ccataagata ttagactctt taggtctcta gtagagctac tagttaatgg agtatatctg 240

gcagtaggat gtgtattaga agataatcag atgcgtcatc attgttgcct gtactgggtcc 300

tactggaact agttggatcc atgttgtaga gagtgtcgaa tacattgatg ttactactga 360

gctacc 366

<210> 50558

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A5

<400> 50558

gttgcaactac atgcttcttc tagcattctt tgttgctcat gcacgcacaa caggtgggct 60

gacctaagag gacagcaatg ctaggaacat gactatgacc aagaccaggt cattgggcga 120

catacttgtc agccagattg acgacgggcc atgctatata gattacggtc ttaatgagta 180
cgtgtgcata aagactaata agtgcataa gatctacatg ctcttcgttg cgagtagtca 240
acgatcatga tgaatccatt ataactcgga gacataatta tactgccgag acagactgtt 300
agagatgacg ctagttagat gctggttcac taaaatatta tgtaaca 347

<210> 50559
<211> 391
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-030-Q1-K1-A6
<400> 50559

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cgtcttcttc gacatgaccg tcggcggcgc cccggcgggc cggatcgtga tggagctgta 120
cgccaacgag gtgccaaga ccgcggagaa cttccgcgcg ctgtgcacgg gcgagaaggg 180
cgtgggcaag tccgggaagc cgctccacta caagggctcc accttcacc gcgtcatccc 240
cgagttcatg tgccagggcg ggcacttcac ccgcggcaac ggcaccggcg gcgagtccat 300
ctacggcgag aagttccccg acgagaagtt cgtgcgcaag cacaccgncc ccggtgtgct 360
ctccatggcc aacgccgggc ccaacaccaa c 391

<210> 50560
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-029-Q1-K1-H12
<400> 50560

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gaatggcaaa tctgactcgg gaggcagttt atcatcctac atactgccag cagcagcagt 180
tggagcaatg ggttattgct acatgtggtg gaaggggttg tctctctcag atgtcatgtg 240
tgtcacaaaa cacaacatgg caaatgctgt tcagagcatg tcaaagcagt tggagcaagt 300

ctcatcagca ctagctgcaa caaaaagaca tctaactcaa cggcttgaga atttg 355

<210> 50561
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A8

<400> 50561

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cgcggctgca gtcctccggg ttcccatagt ggctgggaaa ccatggggaa gaagtcgaag 180
aaacccgggc aagccggggg gagacagtgg gcaccatgga gttccacaaa tgtgacacct 240
aacacatcaa ggccagcatg gcgtggcagt ggttcctcgc acccttcttg aaccagctgg 300
gctcaagctc cagatcatgg tgctgctacc ataggcaatc ctagaccggc atcacaaca 360
tcgcgctctg atctggcttc agctctggca aatgggtg 398

<210> 50562
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A9

<400> 50562

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ttatgaggaa gtgccaatg cataggcaaa agtttttagct agctttaaaa atg 113

<210> 50563
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B10

<400> 50563

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cgcggccgac gcgcgagctt ggaggggtag tgtctcttct ttgcggagac ctgtgatagg 120

agccatcatc atgtacgtcg ctgagactgt tgtcctcaag gttgctatgt catgcgaggg 180
 ttgctgtctgg gcggtcagaa gagtgctctt caagatggaa ggagttgaaa ccttcgacat 240
 atacctcaac gagcagtacg agacagtcaa aggcaatgtc tagcctgagg acgtctttca 300
 tacggtctcc aagt 314

<210> 50564

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F12

<400> 50564

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 ggtacgcgcg cagccccaac tacgggagct acatccgcag cccaacgcg gcgaggctct 300
 tcgccatctg caacctgccc atgccgcgct tgccgtatta gcgggcaata gtatatata 359

<210> 50565

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F5

<400> 50565

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 ccgtaggagt gacgattcca tggcgacga gatggcgacg gcgcaaccga gactcacggc 120
 gccacgttcg gtccgctgta ttgtcaagct aggtggagcg gcgattacca acaagggcga 180
 gctggagagc atcaacgagg agaacctacg gtcggcatgt gcgcagctgc ggcatgccat 240
 gtccgaatct gacggcgatg gcgccatgga gaaggttctg ggaatggact ggagtaggaa 300
 gcccgagat cctgtcgacc cggccgttga cgcggagtgg atcgcgggga tagctagggc 360
 tgggctcgac actaa 375

<210> 50566
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-F6

 <400> 50566

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 gtgggagggg aagctcatgc gtgacttcgg tccccctgtc tggaggggtgt cgtggtcctt 180
 gactggcaac atattatgca tagctgctgg cgagaacaac ataaccctct ggaaggaagg 240
 gtcagatggg cagtgtgagg aggcgatgaa ggttgaacca tacgatgacc ggcaagggtt 300
 ctgaatttct tgtagatcca tgtttcgaca cggacaaagc ttgctactgc tttactagtg 360
 tttcgacaaa gcttaagttt gccatttgtgt tttactagtg tttactgc 408

<210> 50567
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-F9

 <400> 50567

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 tgtgggcggc tagataagat ttgttaggac acttggcaca cctagcgaga agatttggcc 120
 tggctatgct aaattaccag gcgtgaaagt aaattttgtc aaacaaccgt ataataggct 180
 aagggataag ttcccagctg catctttttc tgggcgacca atcctgtctg aagctgggtt 240
 tgatctattg aatagactgc taacttatga tcctgataag cgcatatcag cagacgatgc 300
 tctgaaacac anatggttct ctgaagtttc tctgcctaaa tcaaaagact tcatgccaac 360
 atttcctgct cttaatgaac ttgacaggcg taccaaactg tatctg 406

<210> 50568
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G1

<400> 50568

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agtcatgtac aacgagaact gcaccgaact gctgaaccgc atgtagtggg ccgtgggtcta 120
cgtcaagatg cggctctttg acggactgca cgacgtgctc cggtagcagc tcttcgaggg 180
gtcaccgcac gcctagaacg cttactgctc cttctccaac gtgcgccagt ggatcatact 240
cccaattgca tatgcttatt agtatatagt acaagctcca gtcccaattc tccttctgtg 300
ctcctaccac caccgagctt gcatgccgct catgtcacgg tcgacaacct gaatgtgcat 360
ctgatattgc gaacatggca gcttggccgt tggatttgtg ctatggtgat gtatggaatg 420
attaaggcgg ttgtctttgt gca 443

<210> 50569

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G10

<400> 50569

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gagaggtgcc tgctgctggt tgttgagtaa attaaaagtt ttaaagttat acagtgatgc 120
acattccagt gccagtgtta ttcccttttt acagtctgta tattagcgac aaaggacata 180
ttggtttagga gtttgattct tttgtagcaa tgtgtcccgc cccccactg ttgttgtaaa 240
atccgccccat tcgcccagaa ccgcggtggg cggcgctgct agctttgtga tcatatagaa 300
aacgacttgg ttgtttttgg acattttgaa ttgaaagaaa ga 342

<210> 50570

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G11

<400> 50570

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gactgtacag gcagcagggt ttcttacaat actctaagct gtgacaaact tgtttggtcaa 120
ctcatgcttg caccagtggc ttatgacca cttttctgag atcattgatt ctgtgtcaaa 180
cttcaagtct tcttttagca agaatgcaca attggcatat gtcacgcttc tactgaacta 240
ctctgctctt tccattgaat caaatgaaga acat 274

<210> 50571
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G12

<400> 50571

cccacgcgtc cgtgccacct acctggcacg ctgtgcatgt ggactgactg cactacctgc 60
ttcgaaggct gtgctaccac agccggcgag tgcggtggtt gcttgggagg ggctggggaa 120
gccgggctac cgcttctcct catcatgggg gtcattgtgc tggggctttt cacggtcac 180
ggcatattct acagtgtcct ggtcgcgacc atggttggcc agcggatctg gcagcgccac 240
taccacattc ttgccaaacg gttgctaacc aaggagtatg ttgtagagga cgtcgatggc 300
gagcgcacag actggtgt 318

<210> 50572
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G2

<400> 50572

aaaaaaaaa aataaaaaaa aaaaaattaa ataaacaaaa aaaaaaaaaa cataaaagta 60
gggataaaca acaaaaacgt gaagaaaaat aaaaaaaca aaataataaa tcataacacc 120
aggccaacaa aaaactatat aaaaggcact acaaaacctg 160

<210> 50573
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-G3

<400> 50573

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aathtagaaa tgtacatcaa agtctagtaa tacattgtta aagataaatc aataactcaat 120
aagttcctca tgctttggat ttggggataa catacctgtt ttatttacat gctaataattt 180
ggaccaacaa aaaatacctt aggaacagcc atttgagaaa aaaacaaagc ctttttagtcc 240
taagcaagtt agcatagctt agagttgcaa cttctacatg agcacaataa acagaaaaga 300
aagagaaaag gaaaataaat atatatggca ccaaagcta ttaccatgtt ataataataa 360
tntaatgacc gaattataaa cattnttaca atcttagcan acctctcaac gtgtagtctg 420
aatcgacaga acatcagtag agtaattttt gtt 453

<210> 50574

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G5

<400> 50574

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atagatcgac gacacgcgcg cgatccaggt gaggagcgaa agacacggtg gccttttcga 120
atccgacgga cggcgcgtag cgctagctag ctctctaggc ctgagaggag gatcgtggga 180
cgaggatcat atacggactt ctagtgcact gctgtcacag tggtagctac ggtggcttcg 240
ctgcctcagc agttgaatgt gctgatctac gacacgctgt gctcgacggt cgcgatcatg 300
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<210> 50575

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-G8

<400> 50575

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aattgcagat atcgcagagc atctgaccac catacacttg tcacgatgcg gacgaggaaa 120
gcgttgctta tacgaaggat ctacccacc tgaaggtttt cccaacaact ggagcggcgc 180
gtcgtactgt acgtcggatc tgtccatcca caaaaacggc gaagtacata tctgggacaa 240
aggttttgac gacgaaggga accaggtttg ggggaccaag gctggcccct acgagttcaa 300
gcctgctccc aaatccaaat atgacgacat gttctcgccg ttaaatttct cggctccttt 360
gtcgttagag aagaagctgg ataaaacata tgtaattgat gaccagtang gcctgcccta 420
aatTTTTgtt cataggaatg gaat 444

<210> 50576
<211> 76
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-029-Q1-K1-G9

<400> 50576
aaaaaaaaa aaaaataaaa aaaaaattta aattaaaaaa aaaaaaaat aaaaataagg 60
aaaaggacaa aaaaaa 76

<210> 50577
<211> 381
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-029-Q1-K1-F11

<400> 50577
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gaggaactag ctttgatttc agcttttgtg ctgattttgt tttgttggct ggctagtgg 120
gttgagccct actttttcct ctttgtgagg acaaaccgtt ttatacttgg tcgtgttgag 180
tcgttgccca tttctttgga gaccaagttt tgcttacttt ggatgacttg tttggccatt 240
ttctggcttt tggtcatttg agtgagtttc tcttcttctt cttcttcctc tttctgctta 300
tatatgttca tgtggtggtg ttgacattgc actcattaaa tgggagattg cgaacacaag 360
attgagttgc tccttgtggt t 381

<210> 50578
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H1

<400> 50578

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gccacgcatg ctgggcacca gactgtacgg tgggtgcaccg tacagcgtac gatggtgcac 60
gggacagtga tctgagcgcc agggcgtctt gtgccaagag gccgctctcg ggactgtcta 120
ctgcgacttc gggtaaaatt caccggactg tccggagtgc accggactgt ccggtgagcc 180
aactgtctgt caggccaact gacggacggg tgatctgctc gcgacacgtg gccatgccaa 240
cggtcagagg gaagcaccgg actgttcagt gtgcaccgga ctggccggtg cgccagatct 300
gcaacgggtc ggaa 314
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<210> 50579
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D5

<400> 50579

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tctcctgcga gacagctaatt gccttctgtt aatgtacctt cgctactaag tctgccggat 180
tatggatact gcgtgcatac gtctcatgtg taactaagaa tgtcgtgctt tgaggcgctc 240
gcaactgctg tgcctagatt tatctttatg gatgtcaagt aacatcatgt accattgaca 300
ttgttgaaaa ctttgctttt tc 322
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<210> 50580
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D6

<400> 50580

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gcagcagcag tcaggcggcc atggacgcga gcgcagccgg agccggcggg aaggcgaaga 120
 agggcgcggc cgggcgcaag gccggcgggc cgaggaagaa gtcggtgacg aggtccgtca 180
 aggccggggt gcagtttccc gtcggccgca tcgggcggta cctgaagaag ggccggtacg 240
 cgcagcgcgt cggcacgggc gccccgtct acctggccgc cgtcctcgag tacctggccg 300
 ccgaggtgct ggagctggcc ggcaacgctg ccaaggacaa caagaagacc cgcatcatcc 360
 cgcgccacgt gtccttgcc atccgcaacg acgaggagct cgg 403

<210> 50581
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D7

<400> 50581

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 ctgctgcgga gcacggcccc cgtgctgctg taccagggcg tccgcgacct ccgggacggc 120
 gtcgtgtcca ccgagggcgtg gctgggcggg gtgcgctggg acggcctgcg cgcgttcctg 180
 gacgcggagc gcgccgtgtg gcggacggcc gcggagggcg gggagctcgc gggctacgtg 240
 cagcggtcgg gctcgtgac gcacgtggtg gtgtacgccg cggggcacct agtgccggcg 300
 gacaacgggc gcgcggcgca tgagatgac gagggatggg tgctggggac agggatgttc 360
 ggccgcgggt gtggtgatcg tggtcgtac tgcttcagga gcgccccac atgatg 416

<210> 50582
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D8

<400> 50582

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 cgagctctcc gtgctctgcg acgccgaagt cgcgctcatc gtcttctcca accgcggcaa 120
 gctatacgag ttctgtagcg gaccgagcat caccagaaca cttgagaggt acgaaaaaaaa 180
 cagttatgca ggcccagata ctgctgtaca gaacaaagag aacgagttag tccagaacag 240

ccgcaatgag taccttaaac tgaaagcaaa ggtggataat ttacagagga ctcagaggaa 300
 tttgcttggt gaagatctgg gttcacttgg tgtcaaagag cttgatcagc ttgagaagca 360
 aattgattca tccttaagtc acataagatc cacaaggaca cagcatatgc ttgatcagtt 420
 aactgatctt agaagaagta gcaaattg 447

<210> 50583
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E1

<400> 50583

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 gaaaggcatt cagactatca aatctcaggg agggaaaatc ctttttggag gatctgccat 120
 tgaatcagaa ggaaactttg tgcaaccaac aattgtggaa attacacctt ctgcaccagt 180
 tgtgaaagaa gaactctttg gtctctgtcct ttatgttatg aaatttcagt ccttgaaaga 240
 agcaattgaa atcaataact ctgttcctca aggattgagc agttctatat ttacaaagag 300
 gccagatatt atttttaagt ggctcgggcc ccatggtagt gattgtggta tagtgaatgt 360
 gaacatacct actaatggtg cttgaattgg gtgaacatct tgtggagaaa aacaacttgt 420
 ggtg 424

<210> 50584
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E12

<400> 50584

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 atatggcaag gcaaattgct acagccaatg gccctactgg ctataatagg gattacctgt 180
 tctcaatgga gaaggcatta gccagcatta gccacgaaga tgattcgatc atagagcttg 240
 caaacgaggt gaggaaggtg ctcaacagaa caaaggagac caagatcact ggtgccaatg 300

cttccatgaa atcacatgcc cctcttgtgc acct

334

<210> 50585
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E2

<400> 50585

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ggctacctat gatggcacct gagattacga tggatcacat ggtggatcag attcagcctg 120
cgacacaggc tgtggcacag gctatgcacc atgagattca ccgtgattct caatctaattg 180
tgacacatat ggagcatcat atgcatcggc ctgggggatgg gcaatgggac cctgacggac 240
acattgcgcg acatcttat 259

<210> 50586
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-029-Q1-K1-E3

<400> 50586

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tacatthttcc agtctatctt tgtcaaaagt ttagaggagg ttgatccttg tgaggatggt 120
acagatgaag atatccgcat ggctattcaa aatgcaactg gtcctagaag tgctctgttt 180
gtacctgaag ttccatttga agtccttgta cgtaggcaga tcagcagatt gcttgatcca 240
agtcttcagt gtgcacaatt catatatgat gaacttgtaa agatgagcca tcgctgcctt 300
gcaatggagt tgcagcagtt tcctatactc cgcagaagca tggatgaagt cattgggaag 360
ttttgcggga tggacttaaa ccagcagaaa atatgatagc acacattatt gagatggaag 420
aagattacat aaacacgtna caccca 446

<210> 50587
<211> 441
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-E5

<400> 50587

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atcagcatcc tcgcgcagga ggcctcctc gggttcgccc tgggctccgt ctctatggga 120
ggtttcgtcc tccaccagcg ccgcgccatc taccgctcaa tcgctgaagc cgatgggtcg 180
tcctactttc accagcctgg tgaaattgcc ggctcgtagaa gttcaactga actgggtcat 240
gtatggaaca aggcgggtgga cgagactctt gggaaacttg ttgtgtacct tagctctcgt 300
ggatggtgat ccaagcacca tgcgaacat ggcaactgan gaggcacggg tggaggaaga 360
actctttttg aagccactga tgtgctcata tttctctgta tccggattga acatgttttg 420
gtttaaaaga aaagatgctc c 441

<210> 50588

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-E6

<400> 50588

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aagcgaaagg gggaactaga gcaagatggg cggcgaactg ctgcttgccg tctcctcgt 120
ctctgtgct gccgccctc aggtacttgg agttggcaat ggagacaatc acatgagaat 180
catccaggag gacatcattg agacagtcaa caaccatccc agtgctgggt ggacagcctc 240
acgtaatcct tacttttcaa actataccat tgcgcaattt aagcacatac ttggagtga 300
accagcacca cagaatgcac taagcaatgt tctgtcaaaa acttattcaa gatcactgga 360
acttccaaaa gagnttgacg ctagatctgc atgggtcccgt tgcagcacia ttgggaacat 420
acttgatc 428

<210> 50589

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-E8

<400> 50589

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ggtgccaaagt gggaagagcc tgacacaatg gcaaaatgca ctgttgatgg caatctcatc 120

acagcagcga cttataattc tcatcccgaa ttcacagcc tatttgtcaa agcactcgga 180

ggttcagtgg caggctcaga taagagaata ctgttcctat gtggggacta catggaggat 240

tatgaggtca tgggtcccatt ccaggctctc caagctcttg gctgccatgt cgatgccgtt 300

tgccccgaca agggagctgg ggagacgtgc ccgacagcca ttcatgattt cgaaggtgac 360

cagacctaca gcgagaagcc tggccacgat ttactctga caagcgtcgt tggaagtgtg 420

gatgc 425

<210> 50590

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F1

<400> 50590

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gctagctagg tggtcctcga acgaagatgt tggcggtggt cagcgggcag gtggtggagg 120

tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gcccagacg aaggcgtcgc 180

agctggtggg gcgcttcttg gccgtctccg agccggccgt gttcgtgcag ctcggcgacc 240

acggccacct agcctactcc cacaccaacc aggcgtcct cgcgccagcgc tcgttcgcgg 300

ccaatgacga tgtgttctgc cttgtcgagg tgggtgctgga caacctgggt cgtctg 356

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<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F10

<400> 50591

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ggcaaggcgt acgctgccac accaacaat ctcaagatta ttgacctcta cgtgggtttt 180
gcggttgcca ctgcccttat tcaggttgct tacatgggat tggttgggtc gtttcccttc 240
aactccttcc tctcaggagt tctttcatgc ataggaactg cagttcttgc tgtttgcttc 300
cgcatccaag tgaacaaaga caacaaaga ttc 333

<210> 50592
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D4

<400> 50592

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ggtccatcat gcatgcactc ggccattgaa cctatcagaa gggacgtca catgcattca 120
ct 122

<210> 50593
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B8

<400> 50593

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ttcaatttcc gctggaccg ccgcagcctc gccgtcgtcg gcctcttcgg cctcgtgtc 180
cccacctcgt tctacaaggg catcgtccgc gaattcgacg aggatgcagg ccggccatac 240
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gcgaggaggg gagtttccat tcagtttggt tcggtattgt tttagtctga atctgatgga 360
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ttttcaatta ctgaaactga acatgttt 448

<210> 50594
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C10

 <400> 50594

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 ttgtgtgtcg cggttcagttt ggcttttgcc aagcagtagg atagctgccc gtgtcagtaa 180
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 caactaa 247

<210> 50595
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C11

 <400> 50595

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 cggagcccgc gcgcttttgt acctgccccg ctaccogtct gccccgtcgg cccatgggct 180
 ctgcaagggt ctgggatatg aaccaacatc ttaccttagt ggaccacaag ttttacctcg 240
 ttggttttcc tctctagcat tcaatggatc 270

<210> 50596
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C3

 <400> 50596

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 cgccttcgcc ttcgccacca cgctcaccgg gttccacttc accgtcacgg cgctcgtcgg 120

gtggatctcc aacgccaccg gctactccgt ctccaagcac gtcccgtctt gggagctcgt 180
ctggttctcg ctcgctcgca acacctccat caccgggatg aacctcagcc tcatgctcaa 240
ctccgtcgga ttctaccaga tctccaaact gagcatgatt ccggtggtct gcctcatgga 300
atgggtgctc aacagcaagc actacaccac taaggtcata tccgcagtca tcgtcgt 357

<210> 50597

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-029-Q1-K1-C4

<400> 50597

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gctcgtggct gtgccgacgt agcgactcag tccagcgagg cgcacccgca tgtgctgtga 180
tgctggcaac agcctacaag gatgactgca ctgctcgcaa gcaccgtgcc tgctgtgaac 240
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ctgatgctca atttcgtcgg attctaccag atctgcaaac tgagcatgat tccggtggtc 360
tgtctcatgg catgggtgct caacagcaag cactacacca ctaagggtcat atccgcagtc 420
atcgctcgtg ccgacgggtg 439

<210> 50598

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C5

<400> 50598

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tacggagctt tcattaaccg ctgcttgctc ttctgccgag acgttgctcag atgggagtg 180
ggctaccagt gggcgctactg ctttggaacca ctcatcggcg gctgactgga cgacgttatc 240
taccagctgc tactcatctg ccacaccac gagcagcatc cctgcagcga ctactaaaag 300

ccgcagccga ccg

313

<210> 50599
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C6

<400> 50599

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gtgttgatga tgcaaaaact tctagtgggtg cagcttcaaa gaaagcaaag gtggaattgg 180
atgcgaaagc atcaggcctc aaagaggagg catcatcttt ggcaaaacct gcatcaaaga 240
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gtgttcttct tgcagtgggt ccagtcacca cacaagatct ggtatccaga ttcaagtcta 360
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<210> 50600
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C8

<400> 50600

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aggtcgtgaa gaacaagaag taccttgtag ttgctgtgcc agatgagggg gccagaccc 180
tgctggttca agccatcgag gcttttggca gcaagtgcaa ccccgaggcg ctgaaggagg 240
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actggtacaa cgctgctgtc gcagctggaa aggactccca ggtcgtcaag aatgccaaagc 360
cgtttgcga gtggc 375

<210> 50601
<211> 396

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-C9

 <400> 50601

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 aggtctccgg caccgggac catgagctcc tactccggcg accgctctc ctctctctcc 120
 ttgcgcccc ccaacacctc cttcgactcc tacaagtctg acttcggcat caactctctc 180
 cgctctccg gctctcgccc cctccgcgac cagcggccgg gcgaggctac caacctcca 240
 acgaggcccg ccaccggcgc cagtggtatg caccagcccg ccagcgccaa gccgacgtgg 300
 acccaccagc ctctctccgc cgcggcgtct gcgccacca tggctggggc tggatccggg 360
 ccaaccttca tggctcgga catcttttgc ctgagc 396

<210> 50602
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D1

 <400> 50602

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 ccacctaaa ggctcttgga gtaccttgcc actgtcacca atcaaggttt catgtcagac 120
 cttgacattc agatgccaac tgccttcgat cccttcgttg aggccaatgc tcgcgactct 180
 ggtgccgccc caggtcaaaa cgactacgta cagtgcgca ttcagcagcg taatggtcgc 240
 aagagcctga ccaccgttca tggattgcag aacgagttca gctacagcaa gatcctcaaa 300
 gatctcaaga acgagttctg ctgcaatggt 330

<210> 50603
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D10

 <400> 50603

 ccgtgatctc taattctcac tatctcgagt taataacgga agcttgatca tcttgcttg 60

cggtcttgat aaagagcagg gcattcgtct agcttctgta gtctgatata attctgtact 120
 cgctgactcc atgtactaa gccttcggct tcatcaggaa acccaacaag taaccgactt 180
 ctactagaaa gccatacctc tcttactatt atcaggacca ccaaaaactgc ctcttgatct 240
 gttgct 246

<210> 50604
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D11

<400> 50604

gtatactagc atttagcagc tcatcaacgc gctcaaccta gcacgacgta cggcgaggag 60
 gcgccgcggc agcaactgct cgccgcttgc ggctgctgcc ctgcccctac tactctctct 120
 cgtcgccggc tgtttccact gcatggcagc ggcggtctgc cacctgcctt ctcttgggcg 180
 cccagtccaa gcgctggatc accaagccga gaacggagtc aaggctgcat cagctggcg 240
 agacggcgcc ggcggccttg tgctccagga aggtggcacg ggcaacaacg gcgacgacct 300
 ctctacaaa accctctctg agacgacgac gacgacgatg ggagcggaag cgtgccacga 360
 ggggaacgac 370

<210> 50605
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D12

<400> 50605

ggcgtcggat gttgagtacc gctgcttcgt cggcggcctc gcctgggcca cggacgacca 60
 ctccctccac aacgccttca gcacctacgg cgaggtcctc gagtccaaga tcatctcga 120
 tcgggagacg cagaggtccc gcggcttcgg ctctgtcacc ttctccacgg aggaggcgat 180
 gcggaacgcc atcgagggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa 240
 cgaggcccag tcccgcggcg gccgtggagg cggcggcggg gggtagcggg gtggccgtgg 300
 aggcggcggc tacggcggtg gccggcgccg tgat 334

<210> 50606
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-029-Q1-K1-B6

<400> 50606

aaaaataaaa aaaagaggta gcaagtgaag agggagaaaa aagagatgtg ttattgtagg 60
tcttagtaca tcttagtctt gccaatgcag ctcaaaagaa aaaagaggta gcaagtgagg 120
agggagaaaa aaaaagaggt gttattgtag gtgttactaa tgttgtagct gttgtgcagt 180
tgtaaattccc ccttcggcag ctggttttat ttctgatgt aatgtaagca agagcaaggt 240
cctgtcagat gcgtgcgctg aaagtctgaa cctccgataa tatctgatgc ttcttgtaga 300
tagctgtttc agaattttcg gttaatgaac ccagttactg cttgcttgtt gatctatttt 360
ctgtgttgct atctgatggg atngttgtgg tgaaaa 396

<210> 50607
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D2

<400> 50607

cgacgactac ggctacggct acgccgacga ggacctcggc ctcatctcca agaaaggcaa 60
catcaacagc ggacgcgcta gccaggcca gggaggcgcc gccgctaaga aggacgacga 120
cgagtaggcc tcgccgcctc ggctcgccc cccgggtccc tcgatcgcca gcaagaacca 180
acaagccctt ctgtctgttt aattccagta tcagttcgat tctcatgttg aataatcatg 240
atcatgtggg tttaggtgtc gtgctcacga gtatgtagtg tagctcctgc tagcacagag 300
cacagcacag agccactggg cgatcgacgg gccgtgcatg gcctgtagat accatctcat 360
atgttcacca ctgctacttt gctcatgttg ggggcctctc ctgaactggg ttcttggtatg 420
aacttgattt ctattagttt tccgg 445

<210> 50608

<211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-D3

 <400> 50608

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 agaaggggta ctttgcctc aacgattact ttcacttcgt tgaccaagaa catgtgcagc 120
 ctgcgccagt gattgctcag gaagactacg agagcaattt ggcacccaac acagttgttg 180
 agaccgctcc tgagtacgtt cagcaggaag aagctcaaca aatagcacct gaagtacatg 240
 atgtggtcga aaactatact tattctgagc cacaacagca agtagtgtct gacaactggg 300
 gagaggagcc tctttctgaa gaaccggctt ctttctcaaa tgaaatggca gtcgctcctg 360
 aggagccagt tc 372

<210> 50609
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A1

 <400> 50609

 atgagaccta ctcggaacat tccaagcaca ataatgcacc aaccatggca gatcaaatat 60
 tctgcctcct tatgctcctc ggtctttctg caagtgtgc tacagcgacc attttcccac 120
 aatgctcaca agctgtcata gcttaccttc ttaccgcgta cctctcacca acggtgtcta 180
 ccgtatgtga aaaccaatt cttcaaccct acaagatcca acaggcaatc gcatgctggc 240
 atcttaccta tatcaccctt gatcctccaa caatcatcag ccctattaca gcagttacct 300
 ttggagcatt tattggcaca gaacatcacg gcacaacaac tacgacaact tgtgcta 357

<210> 50610
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A11

 <400> 50610

gtaccgattc gaattcgagg acgcgtacgc acacagcgag gtctgcggcg gatgatgatt 60
 tacggaaggc catggaaggt cttctggaac gcgctgagga ggaagtacca aggggttcgg 120
 caaaagttcg agctgtcttt agtagtggca gtggaaaggt ggccggatgc atgattacaa 180
 caggaaaagt tgttcaagat tgtaatgtgc gggttcttcg taaagggaaa gaagtatatg 240
 tgggttcgct tgattccttg agaaggggtga aagaaactgt gaaggaagtt ggtgctgggc 300
 tagagtgtgg tattggggta gatgacttcc atgaatggga tgaaagtgac atcatagagg 360
 cattcaatac cgtgaataag ctgaatggtg agctgaaact attgtgctga aac 413

<210> 50611
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A12

<400> 50611
 cccacgcgtc cggctctacc agccgcgggg ctcggtgccc cggccatcca tcccctgcga 60
 atctcgatcc gccctcaaag ggagtcaagc ctctccagc ctttcctttc aaatcggatt 120
 tgtttgctca agttgcaaga tggataagag gaccaagggt gcagtttgtg ttgctgctgc 180
 acataactta ctgtcaatga tggccgtgat tattgctct agaaaaagaa aacgaaatgc 240
 aaggagcgca cagattacct atgcaccatt gcatgtgagt ggtacaggct gggatgaaga 300
 taattttgtt attactctgg atgaagagca ctataatggt tat 343

<210> 50612
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A3

<400> 50612
 gcagccagct cgagcccaaa ggagagaacc caggttggcg gcggcgctcc ggcggcgatg 60
 gactccccct acgctctcca cctcgccatc gccgcgctcg tcggcgctc cttcgccgcc 120
 gcctccgcct actacatgca ccgcaagacc ctgcaccagc ttctccgttt cgcccgcgac 180
 cagcagcgcc gccgcaaccg cctcctcccc gaaggcgacg aactggagga cggcgaagag 240

gaccctccgc cgcactggga tcatgatcgc cgcacctgc ccatcccgac gggcctcccg 300
 ccgctccaca ccggccgaga gggtaggcca gttgtttctc caggttcgac taaaagagtt 360
 ggacctattg ttagaccgac tacacccaa 389

<210> 50613
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A4

<400> 50613

ttctacgatg gtgatcggcg accgtgagct tacatgtgct gtgttctgat acttgagact 60
 gttattatga ctatgtataa gatattgtct cttattagta ttggatgatg agatgtatct 120
 tattatgact atggatgaga cttttgagat gtcattgatg agactatgga tttaaatatt 180
 gttatgtgat tgggtgtgaa aaataatgag aagcaaaaaa actgaaagac aagaaaaaaa 240
 gaccctacaa cggactggga tcatg 265

<210> 50614
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-A6

<400> 50614

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 cgagatgaat ggaatgatgt tatctacaag gaaaatgagg attggggctg cagctagcaa 120
 gaagaatata gatgctcagc agacatatgc aactaatggt gcataccaga gttctcaagg 180
 caattgttca gagaatgata ccaacaatac aacagtcttt gtgggtgggt tagattccaa 240
 tgtagacgag gagtatctaa ggcaaatttt tactccgtac ggagaaattt cctatgtgaa 300
 gattcctgta ggcaagcatt gtggatttgt tcaatttacc agcagggtcat gtgctgagga 360
 agccatccaa atgctgaatg ggagtcagat tgggtggacag aaagctcggc tttcatggng 420
 ccgtagtact caaaacagac ag 442

<210> 50615
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A8

 <400> 50615

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 aagacaaacc tgaacgtgga gcaagtgttc ttctccatcg cacgtgacat caagcagagg 120
 cttgcataga ctgattcaaa gccagaggac aaggcaatca aaattaacaa gccagaccag 180
 ggttccgagg caccatctgc ccatcgatct gcatgctgcg gttcataagc agacgcacga 240
 tagccataat cattgggttat ttgacactat ttatttcctg cttggcattt ataggaagaa 300
 tctgaa 306

<210> 50616
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-A9

 <400> 50616

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 tggggccttc ggacagccca tttgcaggtg gggatttctt ggtgaacatt cacttcccac 120
 cggattaccc tttcaagcca ccaaaggtgt ctttccgcac caaggttttc caccggaaca 180
 tcaacagcaa cggcagcatt tgccttgaca ttcttaagga acagtggagt cctgctttaa 240
 ctatctcaaa ggttctcctg tcaatctgct cactgctcac ggacccaaac cctgatgatc 300
 ctcttgtccc tgagattgct cacatgtaca agaccgacag ggccaagtat gagtccaccg 360
 cacgctcctg gacacagaag tatgccatgg gc 392

<210> 50617
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-B1

 <400> 50617

attgtcactg cccctcttgg gctgcatgag cttatggtgg tatgtgcttg tgagttccct 60
ctgttatttc tatcattttc agcagctgtt agtagagaag ccaagtagat atgacgtgga 120
tatggtttgc agttattaaa acttagcagt tattttggaa ttttgtaaac aaatagatct 180
ctagaattgc tgtcctcttc tggaaaaaga atgttgaaat tttctacaaa acaaaattat 240
aagtaatatc tatgtagata gtggccttgt caaccttcac gtatgtgtac cttgatgtta 300
tgtcgtattt gcatagtgat tatttttaag gtctaagggc atttaagtac tgtatactgt 360
aagggcttat gtagcaacta gtgtcagaaa tgaactataa gtgtataaaa gtgtttaaaa 420
agcaatttt 429

<210> 50618
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B10

<400> 50618

gatgaaattg cacaacatgc atcaaatgtg ggaaacaaat cacatcatgc gtatacggtc 60
agcaagggac aggatggggg atcatgatgt ctgcgctgct atgtctagag cgctgatgga 120
taaaagtga acaatcacac tagatatatg tacctctatt atgcctgtcg tcaccaatct 180
tctggacagc aaaatagaca gacactcaat catcgcatcg gaatcgttcg tgaagcttgt 240
aacgacttca tgtccaatga tacatacaac agtatcgaca ggtccttgtg ttggactaga 300
ccttgatgca gaacatacga cgcagcgctg caacttatgc ttcacgaat tggagaaagc 360
caaaaataat ctt 373

<210> 50619
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B11

<400> 50619

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ggcgccatag accagcggca cgatggaggt cgcaccgac atgtacaaca ccaacctgga 120

cggcaccaag gactacctat ctgtcggcat ggcctccgtc cggcgatct acgcctactt 180
 cgccgtctgc tatgtcgtgt tcttggccgg atggctctac gtcaccctct accgcaaccg 240
 actgtccgcg cagcgcatgc accacctcat gtcgggcctg ctcgttgcg cggatgctcta 300
 ctgcatctcg gcggccgacg accagcacta cattcgcacc gtcgggacac cgcacgggtg 360
 ggaca 365

<210> 50620
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-B12

<400> 50620
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 cggaggaagc gtctgcgcct gcggcgggga cggaagcgcc gccggggaag atgacgatgg 120
 tggtaggggt cgacgagagc gagcacagct tctacgcgtt gcagtgggca ctgcagcact 180
 tcttcccgcc gggccagccg cagcagtacc gcctcgtcgt cgtcaccgcc aagcccaccg 240
 ccgcctccgc cgtcggcctc gccggcccag gcgccgcgga tgtgctgccg tacgtggagg 300
 cggatctcaa gcgctccgnc ctgcgcgtcg tcgaaaaagc caaaggcctc tgcacacagg 360
 cgagcgacgc tgtgtttgag gccctctgag gggaccct 398

<210> 50621
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B2

<400> 50621
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 ctgcgtggta tcgggcacca gaagtattgc tccagtcata tgcttatgat tctgcagttg 120
 atatgtgggc aatgggtgcc ataattggctg agttgttgac actccatcct ctctttcctg 180
 gaactagtga agctgatgag attcacaaga tatgcaatgt catcggtagt ccagatgagc 240

aatcttggcc tcaaggattg tcaacttgacg aagcaatgaa gtatcagttc ccacagatca 300
aaggcagtca actggccgag gtgatgacaa cagccagtag cgatgcaatt gacctcatct 360
catcactatg ctcatgggat cctagcaaga 390

<210> 50622
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B4

<400> 50622

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tccctgtcaa gtggcacatt gtgaaggatg ttccaaacag cttgctgaag cacatcattc 120
ttgagaacaa tgaaaacaag ccagtgcga acagcagaga tacacatgag gtgaagcttg 180
agcaaggcct tcaagtgctt aagattttca aggatcatgt ctgcaagaca tccatactgg 240
atgacttcgg cttttatgat aatcgtgaga agatgatgca agagaggaaa gccaaacagc 300
agcagtcgct gaaaaaggtc attgatgtga agctgccag cgtcaccgac atggagagaa 360
gtcctaaatg tgagactgga tcaacagaac tcaactgtgtg tgggactgac ttcttgaaca 420
aagagcgctt 429

<210> 50623
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B5

<400> 50623

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aggacctgga gagagaggtc ggcattggctg ccgcagtggc cgacgacgct ggtatggacg 120
ccgtccagaa gcgcctcatg ttcgaagacg aatgcatttt ggtggacgag caggacaatg 180
ttgttggcca tgagtcaaag tacaactgcc atttgatgga aaagattgat tctgagaatc 240
tgctacatag ggcattcagt gtgttccttt tcaactcaa atatgagctg ctacttcagc 300
aaaggtccgc gacaaagggtt acctttcctt tagtttggac caatacctgc tgcagccacc 360

ctctgtaccg tgagtctgag cctatccagg agaactacct tgggtgtgaga aatgcagcac 420
agaggaggct actggatgag ctgg 444

<210> 50624
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F5

<400> 50624

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ttcttttagtt cttcccagtt tgtgagttgt gacatctagt catctatagg tttataggct 120
ggacgatatg ggggtgagaga ttgtgcgtgc ccatcttttg tcgggcttgg gcaaagatat 180
gtcgagatgt ttactttctc tgtagaattt cgtgaagctg ttgcattgtt cgtttgaaga 240
tggcgacgat gttcagatga tgcttcatgt tgaaggacat atctttattt gcttcattgt 300
accagattt tatttgcttc atgttgaacg acagact 337

<210> 50625
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F8

<400> 50625

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aggcggcccc cgcggcacag gagacggccg tgcacatcgt gtacgttgac cgccccgagg 120
acgccgaccc tgaggagtgc cacatccgca ccctcacccc cgtcctcggc agcgaacaga 180
aggccaggga cgcagtgtc taccactaca agaacgccgc cagcggcttc tccggaagc 240
tcacccccca gcaggtcaag gatctcaagg agcaaccagg tgttctccag gttgtgccga 300
gccagactta ccagctacat ggtcctgggt ctggcactca ccagggcacg acacaca 357

<210> 50626
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G5

<400> 50626

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catctgctca gcctgagctg tcattcccgc gaagcgccgt ctcccggatc tattgatgga 120
ccgagtcgcc gacctggctg tagcgctcct cgtgctcttc ttggctcgtcg gggccacgga 180
gcacgccccg gtcttgctgc ccaagcgac tacagcgcca gcgctacaca ggac 234

<210> 50627

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G6

<400> 50627

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ttgcttgctt gtgctgctat aaaatcccg ggaagatctc taattgaaag gaagggatac 120
tgtgaagagg cactggggct cttactgac ttgattcacc tggatccatc tcataagcag 180
tactatgagg atgaacggag cttagccctg atggataagt taacatgtga catggagact 240
ttcacgaagc attgttctgt tcaggttcaa ccaaattcag ctcccctgca tcatgtgcag 300
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<210> 50628

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G7

<400> 50628

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attgcaggag tcatacaaaa acttcaagat gggtcagatt aagaaagacc agttcatcca 120
gttccttcgc aattacgtcg gagaccaagt gctgaaaacc gtggccaaga aacttcgacg 180
atgctaaatt tctagtgcgc ggtgcgacat cattatctcc ttgatttcta ctcgagctgt 240
ctgtagtagt gctcagtaga gatgaggagg ttcacttctg tttctgttga ttcaagtttc 300

tgtcaagggc ttataggggg ttggcgcgcg tgttcttaca ttaaccaaca gtgcaacaca 360
taggatagat gcagtttctg atactgagac gtttgattct tctttta 407

<210> 50629
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H1

<400> 50629

cccacgcgtc cgggtgccacc tgacgagagc agcccatcac cgccaccgcc gcatgcgag 60
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agacctgcat actcgagcc atacccccca tcctatgggg cgacaccgca acagccgacg 180
tatggtgcac aacaccccg gtagtaccag ccgcctctg gccatgactg cggtcagccg 240
gcatacctg gatggcgcg gccataccca tactacaatg cccccagcc gcagcaatct 300
gtgccttgtc cacaggcgcc gtacaatgcc actgggggtt acccttcgca ccagagcaac 360
ta 362

<210> 50630
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-028-Q1-K1-H2

<400> 50630

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atggactccg gctgaggcgg cgtcttgcc gccgtgctct gcatgctgct ggtcttcgcc 120
atcttccttc tctnctctg gcgccgccac tccgatgcc ccaccgccga taaccaccgt 180
gtcccgcccc agccctcca ggaggatcag gtgctgcacg gtctcactgc ggcgcgacgg 240
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gc 302

<210> 50631
<211> 364

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-H3

 <400> 50631

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 tggaactcgg tgctggaagc tgtgcggcaa ggggtccgca tgatctgcta cctgtctctc 120
 gcagaccatt tcgtcaactg cgcctacgtt gttaacgtgt ggaaggctcg ggtggagctg 180
 gccaccagtg gacaggggtga tgtgaaagac tgcacgcaga gagtcacgga aggcgacgat 240
 ggacggcgctc tgcagcggaa ggtgaatgcg ttgcgagaaa cagtcacggc ggggtgaggca 300
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<210> 50632
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-028-Q1-K1-H4

 <400> 50632

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 acagtggatc caagtattct ataaagcatg catgctccaa tttcccacaa gcgagaatgg 120
 catgatatga tggatgaaat ggctgttgcg gtcaaatgtc tttcaaggat caattgtctt 180
 tcaagaacca cacttatgta ttggtttgtg tgcagttcaa gctctgcaag gtaaggtctg 240
 ttcactttgg ccagaaagtc atgccctacc tgaacaccta cgacgaccgc accatccgac 300
 ttcgaccctc tcatcaaggc caacgacacc atcaagatcg atctggagac caacaagatc 360
 atggacttca tcaagttgta ttgccaatnt catagacttc atcaagttat atactttagt 420
 aggctcaat 429

<210> 50633
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H5

<400> 50633

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gaggaccgca agctccgcat agaggacgcg aagaatgcga cttttgcagc aatagaggaa 120
ggtattgttc caggaggcgg tgcagcatat gttcatctat cgacattcgt accggctatc 180
aaggagacgt tggatgatcc tgaggagcgc ctaggtgctg atatcattca gaaggctttg 240
gtggcacctg cagcgtgat agcccataat gctgggggtgg aaggtgaggt gattgtggat 300
aaaatccggg aaagcgagtg ggagttcggg tacaacgcca tggcggacaa gcacgagaac 360
ctggtggagg ctggtgtgat 380

<210> 50634

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-028-Q1-K1-H6

<400> 50634

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ggcgtggagg agacaaggag gaggaggaag gtggagctgg tgcaggaggc catccgtggc 180
ttcctggagg agaagaggag cgatggccag ggaggaggag aggagcgctt gacggccagg 240
ctcagggagg aggagcagga gctcctgttg tcgttgctct ccaagtggg cgagctaaaa 300
accgaccccg atccagacat cttggaagaa ccgagctcct tccgcccga ccacggtcac 360
cagcctgcan gaggaagcga acgagcaag gaggtggagc cagctgacat cggccatgac 420
ctgagcagga tcaagag 437

<210> 50635

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C7

<400> 50635

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 gaaaatcctg atttctacaa ctggaatata gttgtcataa ggtactgcga cggagcatca 180
 tttgctgggg atgcagaggg gggagatctg gatggaacca aacttttctt cagaggatta 240
 cgtatctgga aagcagttgt agatgaactc atgggaaaag gaatggacgc tgctaaacag 300
 gccttgctta caagctgttc tgctggttct ctagctgcgc tactgcactg tgataat 357

<210> 50636
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D1

<400> 50636

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 ccacaggaga cggagacgga gatgaagctg tccatccagt cgctcgccag gaagctgtcc 180
 ctgccgtccc cgaagcgggg cggcggcggc atcgctcagg acgggaagaa gaagaagaag 240
 cgctcgctgt cgcgcggcga ggcgccgtcg ttcgcgtcct cttct 285

<210> 50637
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D2

<400> 50637

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 ttccagctga tgaaaggcag caaaggtaag aaggctgcct ccatgatag cctggaagag 180
 ctgctgtatg cgcatattgg ggtcgtggaa gacctggggc tgctggatga ggaacaaaag 240
 aagagatgca aggtcatgag gaagaaggaa attgaggcaa atgcagaggc aactgaat 300
 ttagaagttt attaggtcta gtactaggat ccgaaccatt tgaagt 346

<210> 50638
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D4

<400> 50638

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cgcgctcgcc accccggccc tcgccggtga ccccgacatg ctgcaggacg tctgcccggc 180
tgactacgcc tccccggtga agctgaacgg gttcgctgctc aaggcgaact tttcggcgga 240
cgacttcttc ttcgacgggc tgaagaacct gggcaacacc aacaaccggc cgggctccgt 300
ggtgactgcg gccaacgtgg agaagttccc gggcgtgaac acgctgggcg 350

<210> 50639
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-D8

<400> 50639

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ggtgtgcagc tctatcagat agagagctga cgtgaggtgt gagacgcgga tcgtggagta 120
ctactcagta ggagatcaag aggaaggagg tggggagggg gaagaaggcg atagccgggg 180
aggatggtgc ttgtgcttgc gctgggggat ctgcacatcc cgcaccgggc gcccacctc 240
cccgtcaaatt caagtcctat gctcgtgccc ggcaagatcc aacacatcat ctgcactggc 300
aatctctgca tcaaagaagt ccatgactac ctgaaaagcc tttgccctga tctccatatt 360
accag 365

<210> 50640
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E1

<400> 50640

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ggcgtggagg agacaaggag gaggaggaag gtggagctgg tgcaggaggc catccgtggc 180

ttcctggagg agaagaggag cgatggccag ggaggaggag aggagcgctt gacggccagg 240

ctcagggagg aggagcaaga gctcctgttg tcgttgctct ccaagttggg cgagctaaaa 300

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<210> 50641

<211> 67

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E2

<400> 50641

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aaaataa 67

<210> 50642

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E3

<400> 50642

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atactgaaat gattatgtat gcctaactac ttatatgaac tggaatatct tccttggcca 120

aaggagatgg ccgtgaatgg aaaaggtaca gatcaagaca aggccacct gtccaatgtc 180

tataccgatg tgatgcacag cagatcaaag aaagaaggaa ttgcaagagc cttcagtttg 240

tccagtattg attctattat gactccaagt cggatgtcgc ttggggatgt tgatacatca 300

agtaatacag tggcaagcac tgaaccatca gactat 336

<210> 50643

<211> 335

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E5

 <400> 50643

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 acccgactag atcttggtaa tttgaactta tctggtcatc tgggtgectga gcttgggaaa 180
 ttggagcatc tgcagtacct gcaactttac aagaactgca ttcaatgaac aattccttgt 240
 gagcttggtta atttgaagaa tctaataagc ttggacttgt acaagaacaa cattatgggg 300
 acaatacctg ctgtccttgg aaagttgaaa tcctt 335

<210> 50644
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E6

 <400> 50644

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 cgatccggcg ttcatggacg gagcgaaacc cgcggcagca tgctgctcca ccttgcgtgc 120
 gcaggaggca tgcttgtgcg tgtacgcaa agaccccaag tttgcaaat acatcaacaa 180
 cccaacacc gccaaaacct ttacctcgtg cggcatagcc atccccaaat gctaagcaag 240
 cgctctgcgt cgctcgcttcg cttgctcttg ctcttgtgtg taacatatcc agcttatgaa 300
 taaattatgt ggatcagtt 319

<210> 50645
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-028-Q1-K1-E8

 <400> 50645

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 gttctgaagc tgccggcgag cccagcacag ctgctgcgga tcctgtccta agacagcggc 120

gaccatcacg ccttggcagc ttcaaagacc tgatccagtt cgtcgacaag aaggaggagg 180
agattaagaa aacgatgaaa cgaagatcag gcgagaaaga tagccaagct gcaggattct 240
catacgctca gtcagtggct tcagcatagg acattgctcc aaccatattg aattaggtta 300
tctccaaaag cataggacat tgctccaacc atattgtaaa tagtagtggt gtactgtgat 360
cagaacgaag atcagggttc tcatacg 387

<210> 50646
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F1

<400> 50646

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gttttccccg gcggcgccaa gtggttcgcc gccgctgccg ccgtggccgc cgccgccgtc 120
gccttctact gagagaaggg agatctgcac tggcccgctgc tgtaatttat ttgttatccg 180
tggtgagccg ttgattcctt cttttttttt cttttcacca ttttttttct tccatccgaa 240
tatccatatt ccattcggca ttcgattcag taggactggc ggcattctgtt cgttcgtgtt 300
gctacagggg aagaccgtgg ctccgaccag atgggtgggc tg 342

<210> 50647
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F2

<400> 50647

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cataaaatct gaagctcttg gccctgacta tcaaactgac atgctacctg agattcttga 180
tggttcaatg ctctctaagt ggggaagactt agcgttatta gcaaaggacc agtcttgcta 240
ttggagattt gagctgctaa atcttaatgt tgttcgagcc gagataatct tggatgaaat 300
aggtgctggt gaggcagcag atattgatgc tgtacttg 338

<210> 50648
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F3

<400> 50648

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tcctgcactc aagggtctat acccagccaa atctctatcc cgatttgctg atgtccttgc 180
cctgtgtgtc cagcctgaac cagaattcag gccaccaatg tcagaggtgg tgcaagcatt 240
ggttcgactt gtgcagaggg ccaacatgac gaagaggatg cttgatgggg atacttctcg 300
gcgaccagat gacctggacc aagatttcat atgacaagc 339

<210> 50649
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A5

<400> 50649

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ttcacaatga ccaaacacat cttttggtcg tccatgagag ccagttggga atctatgatg 120
ggaatcttga ctgtttgcgc ttgtggtctc caagagatgc actcccagct ccgatatcga 180
gtgcatata ctggtgcgac ggtctcttgg ttacgctgg gttctgcat ggtgctatcg 240
gagtcttcga agcagaatct cttaggctgc gctgccggat tgctccttcc gcttacattc 300
caccttcaat actagcctgt gctggacggg tctaccggtt ggtag 345

<210> 50650
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-028-Q1-K1-A6

<400> 50650

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agactgggga gctggagcga ggacaaggag acgagggaaa ggatgcagca gctgcaaccg 180

aagcagatgc actgggtgag ggccgactcc tccgacttcg ggggcgaccg tcccgcctcc 240

cgcagcgggc aactgcgggt tatcattggc aagtccaagg tggtcgtctt cggaggattc 300

gccgacaagc gcttntctgc tgatgtttcc gtctacgacg tcgag 345

<210> 50651

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A7

<400> 50651

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ccgcaacgca caggaggatt ccatggccga caacaccggg acgttggcgg gcggcatcaa 180

ggacgtgccg gggaacgaga acgaccttca cctccaggaa ctgcgccgct tcgccgtcga 240

tgagcacaac aagaaggcca atgctcttct ggggttcgag aagcttgtga aggccaagac 300

acaagtgggt gctggcacga tgtactatct cactattgaa gtgaaggatg gcgaagtgaa 360

gaagct 366

<210> 50652

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A8

<400> 50652

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gcgggggacg acgagcacct tgaccacccg ctcgtcgagg ggctcaaggc tctccgccgc 180

cgcgctgccg cgtggggcca cggtcgctgg acgggcgtcg aaccgctcct ctaccttcga 240
 cccttcctcg atgtcgctcg ctccgacgag actggggcgc ccatcacggg cgccgcgctc 300
 tcgtcgttgc acaagatcc 319

<210> 50653
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-B2

<400> 50653

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 caagccgggc gtcgagcgcg tcgccgtctc cctcgacctc tacaaccagg gatccgcgac 240
 tgcctatgat gtgtcactta atgacgactc ttggccaaca caagcatttg agcttgtcac 300
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<210>
 <211>
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-B6

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 agaacctgac cggaagagtt gtgggagcgg cggcggaag atggggcagg ccctgcgcag 240
 gctcttcgac tccttcttct ccaccaggga gatgagggtt gtgatgcttg gtctggatgc 300
 agctggtaaa acaacaatac tgtacaggct tcacatggga gagggctctt caacagttcc 360
 tacaagtcgg tttta 374

<210> 50655

<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-B7

<400> 50655

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gcaggccatg ctgttcccgc agcccgccca ggctggggac gccttccacc agatactgaa 180
cgggctggcg cggaagctgc cgcacggtga ggacgtgttc ctcaagcccc ggcagaaggt 240
gctcaactgg accgagggcc cccgcggcga cctgaagcca tggtaggtgt actggaaaaa 300
aatgccatgg caccgtcagc gtgtccgctg ttcttgtgta cgctacacag cacaaccaga 360
tgggaagctg atcga 375

<210> 50656
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-028-Q1-K1-B8

<400> 50656

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aggtagaaaa ttctactttt gttttcgcac aaacactcca acaaaaaata ttgtaccttt 180
gtattcgtac aatccctgtc acagtatcat atctacattt tttgggtcta cctcaatgac 240
aacaaccctc tcaatacctt tgaaggtgtg atgtcaatac ctagaaagct gactgcattt 300
gtttaaaaca ttggtttcgt agatgtggtt atgattttgg cacaaacaga agcgtgcccc 360
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<210> 50657
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C2

<400> 50657

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tgatcgtcac ccatggccac tgccgaggtc cagaccccca ccgtcgtggc gaccgaggaa   180
gcgccggcgg tggagacccc ggctccgtcc gccgtcgtgc ccgaggaggc tgcccccgcc   240
gccgaggcca aggtggagga gccagctgcc ccggcggaga ccgagccagc               290

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<210> 50658
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C3

<400> 50658

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aagcatacga tgtattgagg cagaattctt ccaggttttt gttggaagat gtctacagga   180
accaggtcc gctccagttt gaaggaccag gtgccgattc aaagcctatc tcaactgtgcg   240
tcgaggatca agactacatg ggcaggataa agaaattgca agaataacctg gagaaggatga   300
agagcattgt gaagcctgtg tgctcgcagg at                               332

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<210> 50659
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A2

<400> 50659

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aaaaaaatgg gactcggttt cacaggaccc gacgtattct tcgtctggca tctcacctat   180
atgttcctct ttggtgttac ctatgtccat ttcactttcc ttcattttcc atatgcttat   240
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<210> 50660
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-C4

<400> 50660

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acccaagtcc gctccagttt gaaggaccag gtgccgattc aaagcctatc tcaactgtgcg 240
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agagcattgt gaagcctggg tgctc 325

<210> 50661
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 50661

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aggggtccggc ggcgaaggga aggcaagatg tacaccgcga ggaagaagat ccagaaggag 120
aagggccttg agccctccga gttcgaggac tccgttgccc aggctttctt tgatctggag 180
aacgggaacc aggagctcaa gagcgacctc aaggacctgt acatcaacaa tgctatccag 240
atggatgtta ccgggagcaa gaaggctgtt gtcattccacg tnccataaccg nctgcgcaag 300
gccttcagga agatccatgt cagactcgtc agggagctgg agaaggaaat cagcggcaag 360
gatgtggtaa ttggtgctac aaggaggatt gtgaggccac ccaagaaggg ttcagctgtt 420
ttgcgccctc gc 432

<210> 50662
<211> 394
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-G3

<400> 50662

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ggccgtggta agaagctgca agaggaatgg gctgttccac tgaaatctgt ggaggacatt 120

agtgagcgct tcacaaactt ctgtcaaggg aaactcacia gcagcccatg gtcagaattg 180

gacggtcttc aaccagagac aaagattatc gatgaccagt tgggtgaatat taaccagaag 240

ggtttcctta caattaacag ccaacctgct gtaaatggag agaaatccga ctgcctact 300

gttggttggg gtggtcctgg aggctacgtt tatcagaagg cctacctcga attcttctgc 360

gcaaaggaga agttggacca actaattgag aaga 394

<210> 50663

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-G4

<400> 50663

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tggggtaaaa atgacttggg ccggaatgga tttgtggacc atattaatac gacaaaggac 120

tccaccgact acctatggta cacaacaggt tttagtgtgg atggaagtta ctctcaaaa 180

gggagccatg ctgtccttac atacgactc caatggccat ggtgtccatg ctttcttgaa 240

taatgtgctc ataagtagtg catatggtaa tggctcacia tcaaaattca ctgtcaaaat 300

tgccattaa cctgaggact ggaaagtatg aac 333

<210> 50664

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-H4

<400> 50664

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ggcgggctcc cccactggct cctcgcgcc gccggtggtg cctatggagc ttcacgccgg 120
caaccgcgac cgctcgtcg ccgcgctccg cggccacatc tccgcctccg cgcgcccgt 180
ccacggcctc gtactgcttc agggcgggga ggagaagaca cggtagtga cccatcacct 240
cgagctcttc aggcaagaga gctacttcgc ctatctcttt ggagtgaag aaccagggtt 300
ctacggcgca attgacatcg cctctggaca gtcaattttg ttcgctcaa gattgccagc 360
tgactatgct gtttggatgg gtgaaata 388

<210> 50665
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-A1

<400> 50665
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agacaggcat aactaagggtg ctggggcggg gcccaaata cccgattaaag ctaggttttt 120
gtgtgacttg ggaacacaac accgcggaac cttcgttaagg acgctaagct atctgttcct 180
cgaggaaatt acctgtgacc atagaaatat gattaaagat catatgctta ttattatggt 240
gttggtattg tacatcatat agtcgcgtac agttttgaaa ggaacattag tcattagttt 300
atattgtata cttgtaaaac ttcctcacag ggttggtttg gttttcattt ctac 354

<210> 50666
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-F5

<400> 50666
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caatcaaaca aaaaaagaaa caagaaacaa acaaacacat caaaatacgt agaccaacca 120
aaagacgcaa aaacatgaag agatacacat acacacaagt ggacgcccac tctaaggagc 180
caacataacg ccacggacgc agtgctctac cactacatga actggcgag caaattctac 240
tccaagggtca ccctttatca agtcaaggat ctgaaaaacc cccagggtgac caaactaaat 300

gccttaccag acttaccagt tcataggcct gagtatggca ctcacaaggg cagcacacac 360
acctt 365

<210> 50667
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D5

<400> 50667

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agctgtcaga cgcaatttct gggcctgtac aatccatact ggaaactggc gagagagact 120
cctgggcatg cattaggaga ctatataggc gtgagattga aaatgctgct ctttcattct 180
cagcttcctt ttctgagttt gacctagacc aaacaatttc caataagatg gtctcagatt 240
tgaggggaata tgcaagaagt gtagtagaaa ctaaagctag agaagaagct ggaaatgttc 300
tgatgcgcat gaaagaaagg tttttcactg tgttgagcca tgataaggac tcgatgccaa 360
ggcatggat gctagatgag gatatccgta caatcactag agaagcacgc ttaggggctt 420
ta 422

<210> 50668
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D6

<400> 50668

caaaaactac atttttctca accttcaaag tcgatccaaa gagggccatt tcgagtcaag 60
cttggacccc taaagatcca gcaactgacc tgaaatatag gcacctaaca tgctccgaag 120
caggatccac caggtgatga attggaagct ttatgctcag caaattgtga atgccactag 180
agctatcaag tcaacgaggg tcaggcaagc gaaagaggag gcttatctag aaat 234

<210> 50669
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-027-Q1-K1-E2

<400> 50669

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ggcagctcga gagagagaga gagagaaaga tgtcgtggtt cgggcaccac caccacaacc 120
agccgggtcc cccggcgctc ggccccaacc aggtgttcaa gatcttctgc cgcgccaacg 180
agaactactg cctggccgctc cgcgacggcg ccgtcgtgct ggccccggtc aacccaag 240
acgaccacca gcactggtac aaggacatgc gcttcaacac ccgggtcaag gacgaggaag 300
gcatgccggc gttcgcgctc gtcaacaagg ccacggggct cgcaatcaag cactcccttg 360
gccagtcca cccggtcaag ctgcgcctt tcagcccgga ccaggaggac gcgtcngtgc 420
tgtggacgga gagca 435

<210> 50670
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E4

<400> 50670

aaaaa caaa aatagattaa aaaaaaaaaa aaaaaaaga caaggagggc 60
tttaaaatcc aagtacgaga gcacagacta gccaactatt agatgattat ttagcgctac 120
ctaacttcat ttcaccggcc tgtgaatcac aacttcatgc actggtaaaa cattctcgac 180
actgatctct atcggttcac atactatatt catgtcgata gtttgcgac taacgacaag 240
gcccgaata ttcattcttc ct 262

<210> 50671
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E5

<400> 50671

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cggcatccgg ggcccgcgg ccttcttctt caagtctgac cgctcggcg tcagggtgcc 120

caccatcatg gtctcgccgt ggatcaagaa gggcacccgtc gtcgggccg cctcggggcc 180
cacggacacc tccgagttcg aacactccta cattccggcc accatcaaga agatcttcaa 240
cctctcgtcc gatttctca ccaagagaga cgcgtgggcc ggtaccttcg accacatctt 300
caccgagctc gaccaaccaa gaacagattg cccagagaca ttaccggagg tgccatttga 360
gagaccaact ccacccaaag aacacggctg gctctcagat ttccagcggg agctcg 416

<210> 50672
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E6

<400> 50672

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agcgagcagt tcacggccat gttccggcgc aaggccttcc tgcactggta caccggggag 120
ggcatggacg agatggagtt caccgaggcc gagagcaaca tgaacgacct ggtggccgag 180
taccagcagt accaggacgc gacggctgaa gaggaggagg agtacaagga gggagatgag 240
gtggctgcct gatccaccgg cacattgtgg ggttgtgcac attgtggggg tgtgttatta 300
ttgttgctct tcattctggtg tttaaaaat 329

<210> 50673
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E7

<400> 50673

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tgccagtggc ttacgggtgc ttgtctatcc aactatttca tgaaattggg cactttttgg 120
cagcatttcc aaaaaatgtt aaactgggaa ttcctttctt tattccgaac ttcacccttg 180
gaacttttgg tgcaattact cagttcaagt ccattcttcc ggatcgaaag acaatgtttg 240
acatatcaat ggctggctct gtggctggag ctgcactttc cttttcaatg ttctttgttg 300
gcttattact ctcttcaaat cctgttgggg caagtgattt agtggaagta cctagtcagc 360

tggtccaggg ttcattgttg cttggactta ttagtagagc aacgcttgga tac 413

<210> 50674

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-E8

<400> 50674

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ccttcgggcg cctggacgcc taggcgacgc ctttaaaaca agggctcttct ctgtattaaa 120

tattttctga tgtacagtag ctaccttggc aattcatgcc ttcaacatg 169

<210> 50675

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C7

<400> 50675

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ccatcactct ggggatccga ttgatcccca gttggaaggc atcttccaca actactctgt 180

gaagcgccag atcatcaatt ctggacccat cattgcatcc cagttgctgc ttgtggatga 240

agtgatcagg gcatgccgca acatgaggaa accgacttag atttttgtcg ccacctagcc 300

gagacttatt cgttctacct ttgttttgg ttctgtgcct agtagtgatc tggatgatac 360

gtctgacttg agttgggtccc atttcacgaa gcacgtcgca ttcgcttttt ttttgtggga 420

ttactg 426

<210> 50676

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A5

<400> 50676

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acaggaggga tggaggaagg agacggtcga tcagagtctg agaccgaggg ctatccacca 120
ccgcagcgac gagcgggagg agatgaagat catcattgac acggatcccg gcatcgatga 180
cagcgtggcc atcctgatgg cattccatat gccgggcgtc caggctctat ggctcaccac 240
catcttctga aactgcacca cagagcatgc cacacgcaac gccttgatcc tgtgcgagaa 300
ggcaagccat ctagagggtcc cagtagctga cggcagccat gagcctctca aaggaggaaa 360
gccgcacgtt gctgacttcg ttcattggacc tgatggcctc gggaacgtag atcttactga 420
tc 422

<210> 50677
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A7

<400> 50677

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ccctagccac cgggcctgcc ctggtccgac tgcgcagacg tgctcgtggg atcctccggc 120
ccctccttcc cctacatccg cggctgggtca ttcaccttct actcgggcgc tgctatgggt 180
tctgtttagg aacatcttca acccaagggtg tgcgtgcata ctagcacctc cgttgctgct 240
tgagcagatc ctgccctggc tcttctatca caaggctcgtc ggcgtctcgc agttcctgct 300
cttcgtggag ggcaaggcgg ctaaacccaa tgtcgcggga gtcctcgagt caattcctgg 360
ggttaaagtg gtgttccgaa ctaatgat 388

<210> 50678
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A8

<400> 50678

cttcctact gctgctagca aagaccttta ttactagtgt caattaagtt acgaaagaag 60
aagaaagaaa gaaaatttcg aggcgcagaa aaaagacggc tttgatctct gctagtgtgg 120

tgtggtagtg tgtgtttcta gtaagtaagc gagccagggg tcaagaagca gagagctgct 180
ctgtctcttt tgtctcttgc aagaatggct tcctccagcg ggagcgggag ctcggtctcc 240
ctctcggcgg caacggcggc cctggccgcc gcggcgggca cggaggagga gctgcgcgcg 300
ctcatggagc agcgcgcgcg gaagcggatg ctgtccaacc gcgagtcgcg gcggcgggtcg 360
cggatgcgca agcagcgcca cctcgacgag ctgaccgcgc aggcggcgca cctgcgcgcg 420
gagaacgcgc acgt 434

<210> 50679
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-B4

<400> 50679
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ttatcaccct agctcctgca acaatcatca gccctattac aacagttacc tcaggtgcat 120
ttattggcac aaaacatcag ggcacaacaa ctacaacaac ttgtgctagc aaaccttgct 180
gcctactctc agcaacagca gtttcttcca ttcaaccaac taggttcatt gaactctgct 240
tcttatttgc aacaacaaca actaccattc agccagctac ctgctgcta cccacagcaa 300
tttcttccat tcaaccaact agcagcattg aactctgctg cttatttaca gcagcaacaa 360
ctactaccat tcagccagct agcttgtgtg agccctgcta ccttcttgac acaaccacag 420

<210> 50680
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-B7

<400> 50680
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cgtcggcatc aacttcgagg aggtcgactt cgacaggacg gacgcggtgg acaaggcat 120
ggacgacttc gacacgtccc gcaacgacgt cgtcgaggag gaggagtctg tgcaggggat 180
gaggaagtgg ctggacgagg ccaggcgag cggtgccgtg ggcggcgctt tctccagcaa 240

gttcatccac gagtaccacg agaggacgag gcaggagcac gacgagctgg tcgacaggtc 300
cgacgaggcg gtggagagcg tggagaaccc cgggtggtgc atagccaagg ccgtggcgct 360
gctgctgctg ggc 373

<210> 50681
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C2

<400> 50681

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acttcctgac actgttctat attgtctttg tggcactgta cactgtacca gttctgtatg 120
agaaatatga ggacaagggt gatgcttttg gtgagaaggc tatgactgaa ctgaagaagt 180
attatgccat tttcgatgag aagtgcctat cgaagattcc aaagggcccc ctttaaggata 240
agaagcacta gattggtagt aaggtatttg ctatgaatca acatctacat tatgtcacta 300
gctgtcacct ctttctctga aggatggtgc ttggtcctgg tctctagttg atagtatata 360
atctgtatgg gcaactttgg tgtgactgac agtctgctga aaactggtga tcttggtttt 420
ggtttc 426

<210> 50682
<211> 354
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-027-Q1-K1-C5

<400> 50682

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tctagcagcc tctcaccctc atggccaaga tcaagatcgg gatcaatggg tttggcagga 120
tcggaaggct ggtggccagg gtggccctgc agagcgacga cgtcgagctc gtcgccgtga 180
acgaccctt catcagcacc gattacatga cctacatggt caagtatgac actgtgcacg 240
gacagtggaa gcaccatgag gtcaagggtga aggactccaa gacccttctc tttggtgaga 300

aagangttgc tgtgtttggc tgcaggaacc ttgaggagat cccatggggg tgg 354

<210> 50683
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-A4

<400> 50683

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tgggcacacc aaagaggaca gcaatgctag gaacatgacg atgaccaaga cgagggcatc 180
ggccaacata cttgttagcc gtaatgacga cgggccatgc tatctagatt cgggtcttaa 240
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ttgtcaacca tcatcatgaa ttcatgatac tgcggagaca tcatgatact gcggagacag 360
acggcgagag atgaggctag ctagatgctg tttcaccaaa atattatgta acacccaaat 420
cttccat 427

<210> 50684
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G8

<400> 50684

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actaaaaaaa aaaaaggcag gagaaataaa acatggaaaa actaccacaaa tataacgacc 120
aatctcaaat ctactacca ctctttctat cctcttccat c 161

<210> 50685
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H1

<400> 50685

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gcgggagatg ggcgatgcc aacgaagcag gcatgttgag cagtcaactcg cggaggtggc 120
agctcagatc gagtctgtga cggagaagat cataatggag gaggagaagg tgaagaagtg 180
gaaagcggag aacctgagga ggaagcataa ctacgtgccc ttcctattca atttcctcaa 240
gattctcgag gagaagcagc agctgaagcc cctgatagag aaggcgaagg cgaagcagaa 300
gtcccacggc cccagctagg tgaaaagccg caatgcacct acgtactgtc tcttttagtt 360
ggggttcctt gtaagattgg agttcgcgta tatgctttct ggttttagtt taagacaa 418

<210> 50686
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H2

<400> 50686

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atgagtacaa agcgtgtgcg gtcattggtg ttacgcaatg catctacgcc gctctagcgc 120
tcttgtccaa tgcggcggtt accggcggtg tgagccctct ggtgttcgac gtctacaggc 180
aggccgttgg caccattgta cttgtccccg tcgtcatcgc tgtcaacatg aagaagatta 240
atgagatgac gacaggcctt ggactgaccg gcttgtcgct ggtcttactc gtcttccttg 300
tcggggcaac tgtgaaccag tgcattgtact accaaggggt gaatctgggc 350

<210> 50687
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-027-Q1-K1-A2

<400> 50687

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ccctccttcc cctacatccg cggttggtca ttcacctccg actcggggcg tgctatgggt 180
tctgtagagg aacatctcca acccaaggtg tgcgtgcaga cgagcaccta cgcgggggctt 240

gagcagatcc tgccttggct cttctatcac aaggctcgctg gcgctcgcgca gttcctgctc 300
 ttcgtggagg gcaagggcggc gaaacccaat gtcgcggggag tctctgagtc aattcctggg 360
 gtaaaagtgg tgtacagaac taatgatctt gangagcggc aggcacggag tcgaatctgg 420
 aatgagactt ggc 433

<210> 50688
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-E2

<400> 50688

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 ctctctctcc tggctctctc tgcgagcgcc acctccacgc atacaagctg cggctgcggc 180
 tgccagccac cgccaactgt tcctctaccg ccctctgtgc atctgccacc ttctgatcac 240
 ctgccacctg cagtgcctct tccaccgctt gtccacctgc cgactccagt ccacctgcca 300
 cctgctgtcc atgtgcctcc tgctgttcat ctgccggcgc caccatgcta ctaccctact 360
 caaccggccc tgctcagac tcctctcag acacaccca 399

<210> 50689
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-E3

<400> 50689

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 aagggtgagg ccctcgacgc cgggtgacat gagcccactc ccgtcccca ccaaggccat 180
 gacaccctgg cagccgcagc cggtcacggc ctcccagggt cgcgtcggcg tgagcatgac 240
 tcataagccc ccggtcagcg gtgccataat cggttatgcc cctaccccg c atgccgtgct 300
 ggcgcccgca gcctgggggca tggccatgct cgcgcccgtc atgatgggtg ctgcagcgcc 360

tgccaagccc atggtgatgg cctcatcggg caccggccgc ggcaacatca gcaagcgga 419

<210> 50690

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F1

<400> 50690

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agtgagctcc aaagtttatt tgtcatacat gggggaagct tacaaaggta cactgatacc 120

actaattatc ttgggtcaaa ccatgttcca agttcttcag attgcgagca actggtggat 180

ggcatgggca aaccacaaaa cagaaggaga tgctccaag acagatagtg tggtccttct 240

ggttgtttat atgtcccttg cctttggaag ttactatct gtgttcata gaagccttct 300

tgtggctacg tttggttttag cagctgcca gaagcttttt ataaaaatgc ttaggtgtgt 360

ctttcgagct ccaatgtcat tctttgacac caca 394

<210> 50691

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D1

<400> 50691

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gtattgagcg ctccccccgg ggggttcaccg gcggcggcaa cgacggtgaa aactacatcg 120

ggtgctagct ccgacggtgg tgcgtgccct gttgacgata gggcgcgcgg tgcgcgggca 180

gcttgtaggc gttcgatcgg ccatgtaggg caactatata tctttggcag gtctccatca 240

tccttccttg gagagaagat gcatggtaat ggagtgcgtg tgtatgtatg tgtatgcca 300

tggcgcgcg cgcgggtctt gggcgaatca cagtagagat gcaatatcat gtatccagta 360

tctttcttac aacacaaaca gtgagaaatt attagtcaag tgtgcattgt ggtgcaagca 420

ct 422

<210> 50692
<211> 454
<212> DNA
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<223> Clone ID: LIB3079-026-Q1-K1-D2

<400> 50692

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gtggtgacac atggatgaga gttggcatat ggctgctgat ggggtgttctc ctgtacattt 180
tctacggacg aacccacagc tccctaacag atgtcgtcta cgttccagta acgcaagctg 240
atgagatgta caggagttca tcaggatatg tatcatagaa aagaacagtc gcagttactt 300
caaggtggct ggtcattcag ttgtagataa ttggttatca accaggaaag aggggaattg 360
gctgttattt atttcatgct ttggcaacaa gatctcgtgg atgcaacttt gcaagatata 420
tatgatgttc actaacctgg tcaatttaca catt 454

<210> 50693
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A8

<400> 50693

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tattggctgc tgccatactg tcctcactgt ctccatgcta cgaagcctgc tgctgcatca 180
cgaaacccat aaagtcaccg tcgtcgccga gaaggccata cttctcgtcc tattccgagg 240
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actaaagcgt gtagcacaaa gtgtgctgct gctcccatta gaaatataat agcgtatgtt 360
atgttgatgc atatatatat gcatcgcca tctacctgtg tgggtgcaaaa ttctgaataa 420
aatcttgctt ttt 433

<210> 50694
<211> 304

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-B2

 <400> 50694

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 agttgctagc ttcacttgcg gatgcacgca cgaaggcatc ttgttacctt ctgtgtatgc 180
 ataacccttg ttgtcaaagt ctgatattaa tagctgaccg tttgaagaca aagggacgta 240
 ttggattcat gcaatagcgt aatcttgaaa acaaaattct gaataaaaat tggctttttt 300
 ccgg 304

<210> 50695
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-C1

 <400> 50695

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 aggaggaata acaattatcc ctccacaaac tgcttttctt ctacataatc ctcatgcctc 180
 atttaatat actctgaact atccgatcta caaattacaa gacaggactt atgagtcaaa 240
 ggatcaaatg gatgctggac tactactcaa tccatatgag aatctgtata tcaaattgac 300
 aaattcttaa tggtcgacga ttcttctctc aacaatcggt cataccttca tagacctcta 360
 agtctgaaa 369

<210> 50696
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-H1

 <400> 50696

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aataatggcg gccgaagagg gtgccgtgat cgcgtgccac accaaggacg agttcgacgc 120
 ccgcatggcc aaggccaagg agcagggcaa gctgggtggc atcgacttca tggccccctg 180
 gtgcagtggg tgccagatga tggccccggt gtacgaggac tgcgccagca agtacccttt 240
 cgcggtcttc ctcgaggtct acgtggacga actgctggaa gtcgcgaaga tctacggcgt 300
 ccatgtgatg 310

<210> 50697
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H10

<400> 50697

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 agagagacct ccaggcaggt gatcgagaag tactactccc gcatgaccct cgacttccac 120
 accaacaaga aggtgctcga ggaggtctcg attctgccct cgaagcgcct ccgcaacaag 180
 gtggctggct tcagtaccca cctgatgcgc cgcattccagc gcggcccagt ccgcggcatc 240
 tcgctcaagc tgcaggagga ggagcgcgag cgccgcatgg acttcgtgcc ggagaagtcc 300
 gcgctcgagg tcgaagagat ccgcgtcgac aaggagacca tggagatgct cgctgccctt 360
 ggcat 365

<210> 50698
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H12

<400> 50698

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 atactcgctc tatagtctct atctaccatc tctatgttaa gcctcaaccc ttcaagctgc 180
 cctacttcaa atacccttaa ctcccc 207

<210> 50699
<211> 231
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H3

<400> 50699

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cgccgtggaa gctgggttaa gtcaagggtc ggcttgata catagagaga tgatgcccc 120
tgaccctcac aagcttctgg aaggatgcct tattgctgga gttgggttga gggcattagc 180
tgcttacatc tacattagag gtgaatactt gaatgagcgt gttaaccttg a 231

<210> 50700
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H5

<400> 50700

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ccgatcgagc tgccagccac cgtcaccagc tcatgtacac gacgtcgctg catctgccag 180
ctccgattca cctgccacct acagtgcac tcccaccgcc agtccacctg ccgccgaccg 240
tccacctgcc aacgacggtc catgtgccgc cgcccgttca tctaccgccg acaccatgcc 300
actaccctac tcaaccacca cagactcagg ccttcattcc cagccacact catgcccgtg 360
ccaacaaccg gattcagacc cgtgccagct gcacggaacc tgccgcgttg gcaacacccc 420
gatcc 425

<210> 50701
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H6

<400> 50701

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cagggccagc aagctggtcg cgctcgtcac caccgtccat ggggggaagg acgccactag 180
atacgtggtg gcgccaacg gcatcacacg catcggcaag gcggcagggg ccgcggccgt 240
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cgtggaggcg ctccgtgttg agctgaccgg gctgccggag acggtggcgt gacaaccgcg 360
atcgccatgt gccacgcaa caccatgaac tgggacgac gctacttcca aatgctgaac 420
gtgacgcgcg 430

<210> 50702
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H7

<400> 50702

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cagggccagc aagctggtcg cgctcgtcac caccgtccat ggggggaagg acgccactac 180
atacgtggag gcgccaacg gcatcacacg catagggaag gccgcagggg ccgcggccgt 240
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cgtggaggcg ctccgtgttg agctgaccgg gtgctcggag acggtggcgt gacaaccgcg 360
atcgccatgt gccacgcaa caccatgaac tgggacgac gctactttca aatgctgaac 420
gtgacgcgcg 430

<210> 50703
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H8

<400> 50703

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cgccgaaagc tggaggaaca gcagcaggcc attgagctcc agagccgtcg cctcatgggt 180
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tcgccgccag agtccgggca gcagctgctc aagctttgag gagcggattt gctctggagg 360
ggaaggtcaa cgggtggtgat aaggaggaat ctggtcgcga ggcgagccca aacgccgatg 420
atagc 425

<210> 50704
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A1

<400> 50704

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gaacaacttg gagttcttag caaccctgac ttcaaaatta ctgctcttat ggatcacttg 120
gctatgataa ctgtgcaatc tgaaaatcaa agtagaaaga agacttttga ctgcaagcct 180
cttgggtgtca tttggggtca gttccctgag tactacaacg aaaagaacac cataatgttt 240
gatgatctaa gaaggaattt cgtcatgaat ccacagaacg gtctcgtgat caagccattc 300
aggaaagcgc actcgaacag gcatgatgat cagcagctgg taaagcttac acactacctg 360
ctttcgatcg gagacctaga agatctcagc aagcttgacc acggttaatg gg 412

<210> 50705
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A10

<400> 50705

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gtctttgtac ttattcttgc acaactctgt gtttacattt aacatacaat aatccctaaa 120
gttacacatt atttatcttc taaactttta gtttcctcac ataactacca atatttacca 180
ccttttttac ctctataaat attttcgcta tatccatca 219

<210> 50706
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-G9

 <400> 50706

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 tgcataacca tctttttctc tatctgatct ggcttatctc cagcgccacc caacttaacc 180
 ccttttcaact acatgcccct ttgattact gccttcatag cgattactcc ctatccccct 240
 ttctgttcttc ccagtatcaa ttactcttat c 271

<210> 50707
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-F3

 <400> 50707

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 gtattcgcca taggagagcc tacaagcatg ggaggcct 158

<210> 50708
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-F4

 <400> 50708

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 ccagacacca ccgtttcatt taccgcctcc gttctatatg ccgcctccgt tctatctgcc 180
 gccgcagcag cagccgcagc catggcaata cccactcaa ccaccgcagc taagcccgtg 240

ccagcagttc ggatcctgcg gcgtcggcag cgtcggcagc ccgttcctgg gccagtgcgt 300
cgagttcctg aggcaccagt gcagcccggc ggcgacgccc cctacggctc gccacagtgc 360
caggcgcttc agcagcaatg ctgccaccag atcaggcagg ttgag 405

<210> 50709
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-025-Q1-K1-F5
<400> 50709

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gtcggcatct gcgggtttca gctcttcgga aacatcactg gcaaccggga agtcagggtg 180
aacaaggcag ggagggcagc tgggtgtgctt gagaaccatg aggaggggag acgttacgcc 240
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aagttcttca ctgaccctaa gtgaagcaat tgttgattgg catactacta ctactacttg 360
ctactgggga ttntacactt tgctggcaac tcaatcatgt ggggacatcc atgacctcta 420
aaagt 425

<210> 50710
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-025-Q1-K1-F6
<400> 50710

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tcggaggcga acacccgcat ggcggcggct ggcggcggcg catgaggga ggtatccttc 120
aagatcatcc tcacctccga cccaagctc cctttcaaag tggtcagcgt gcccgaggcg 180
gcgcccttta ccgcggtgct caagtacgcc gcggaggagt tcaaggtccc gcccagacc 240
agcgccatca tcaccaacga tggaattggc atcaaccccc agcaaagtgc aggcaacgtg 300

tttctgaaac atggttcgga gctgctctc atccccctcg cgatagagtt ggagctgtag 360
 tcatgtcttc cggttagagg atatatacag tccaatgcat aatgagcata acttgagaga 420
 aataaagctt tgat 434

<210> 50711
 <211> 226
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-025-Q1-K1-F7
 <400> 50711

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 aataaaaaaaa aagggtcacc tattttcaaa aacctggcct tactttctac agcttgctct 180
 ctgtgaaacc ctttaccttg cccctctaata tcaactttgtt agccca 226

<210> 50712
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-F8
 <400> 50712

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 gcagcaacgc ccaccaccgc cacggactcg gcaggtcaac cctgcacctc cacctattcc 180
 cgcaccctcc gcgcctccga tgccaccaca gcttgcccaa gcccaagttc ctcccactcc 240
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 tgctcctgaa gccaccgnca ccaacggtct tcaggaacca ccgaaaccat gcaagtcgac 360
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 gcgatccggc tgacccgg 438

<210> 50713
 <211> 363

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-F9

 <400> 50713

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 aagaaatctg taacttatgc tgaaagtcac gatcaagcat taatcgggtca tcagactatt 180
 gcgtttttggg tgattgaaca atgatatgta ttatttcatt gccctccata gacctttaac 240
 ttctaccatt gatccatcga tagcattaca taagaagatt tcacttatca caatggggttt 300
 aagatgataa ggctatctta atttcatggg aaattaattt ggacatcctg aatggataga 360
 ttt 363

<210> 50714
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-G1

 <400> 50714

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 accgttatgg actgcgatat ggtacttgca atgagtgacg ggaaagtagt ggagtagcac 180
 aagcctacaa agctcgtgga aaccgaagga tctctcttcc gtgatcttgt caaggagtac 240
 tggtcataca catcgaattg aaatatctag gagaaactgt gacaatcaca tgttcactcg 300
 ttgcaatctc ttaaaaaaag a 321

<210> 50715
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-G12

 <400> 50715

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 gaaatgcata cataaaagat atgcttacca gattgtgcta aaaaccttgg atttgctgcg 180
 atcgatgcct tcccttggtg atgtggatgt tccaaacggt ggacatttta cagtttgcg 240
 tgatgtgcat ggccagtact ttgatttgct caacatattt gacctcaatg gccttccatc 300
 agaagaaaat ccttacctct tcaatggcga ttttgtggac cgaggatctt tctccgttga 360
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<210> 50716
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-G3

<400> 50716

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 gcctcctgga cagctgcttc ctgctgtgga ttgagcagca gggtgacgcc tcctggaagc 180
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 gcatggttcg ttgtctggat cagtacctgt aaactccggt tgatcaagga agataattgc 300
 gatgccagca agggctgaac atntggcgtc gctaatttag agaattcttt ttagtctttg 360
 acgggatgaa acggttgccg agttgctctg ttaactgaag tgctgtgtt ttgccgatgt 420
 gttaaacttt ctttt 435

<210> 50717
 <211> 318
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-G4

<400> 50717

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aagtgaatgg gctgaagctg aaagagctta cacgcaaattc ctggaaatca atccatttga 180
ccagattgtc cacaagcgga cgcgtgggcg gtgagaacga aatccagcat tcttgggtgca 240
caacacagca caggcagcag cgtacctaga atgccgncgt cagccggcgg caaccctgcg 300
agcgacagcg ccgcgggc 318

<210> 50718
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-025-Q1-K1-G5

<400> 50718

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aacgaggtgc ccaagaccgc ggagaacttc cgcgcgctgt gcacgggcga gaagggcgtg 180
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ggcgagaagt tccccgacga gaagtctgtg ggcgcaagca caccgncccc ggtgtgctct 360
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ccccttggtc 430

<210> 50719
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-G6

<400> 50719

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gtggaagaga aatctgcgaa tatctgttcg gatgcgtttt gcatatgcat agaaggcata 180
gacaaggaac cccttatgcc tttttgtatt tgtcatgttc ttccatgggtg tacatataga 240

tcagtgtgca atgagaaatg tgagcgggta atgtacggct ttcccccca aaatattact 300
gcaatagtagc cgtttgtagt taaaaaagac ggaaaacaca atatagatga tcctttttat 360
ttggcctgtt gctacatata aggttggtta tacatggagt cttggcatgt ggtggtgcca 420
ggtattagca aaaa 434

<210> 50720
<211> 439
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-025-Q1-K1-F2
<400> 50720

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gaactggcca taggagagca aagaggaagg ggaggccacg agggcgccag tagatatatt 180
catcttcatc tcggcttgcg atatTTTTga attttctatt ccgtattgaa ggcgtcgatg 240
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gccgctgcca tctctccgc cttctgattc ccactccncc cactcccaaa ccctaacctn 360
ccccctgtag cacacccac ctncagctnt gtaggtccta ctatacttgc aacctctccc 420
gncgactcgc ttcgatcta 439

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<211> 430
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-025-Q1-K1-G7
<400> 50721

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tcacttggtt ctgctaatac aacaacaatt gaggcataat agaagaagac aactccacat 120
tggtatatat atcttggccg gaagaggaat tttgctcagg tttttggaaa tgacagaaaa 180
tattggttca tcctgcata ctccagaagag gatttgagaa gaactccagc tctacagggt 240

ctggattatc ctgtgagacc agattttgat ggtcaggaac tgtaacacag caatttttgc 300
cagtgtcctc gtcagatacc tcagtgttgg gaacatctac tgatacaact gacagcattg 360
ctgattgcg c tatgcaaggc atcaaagtaa atgttcacaa gattntagta accatgagta 420
attcatctgt 430

<210> 50722
<211> 427
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-025-Q1-K1-G8
<400> 50722

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acgagttcgc ggacctgtac atcgtcaagt ggacgtcgct gatgatcccg cccatcgtga 180
tcatgatggt gaacctgatc ggcacgcgg tcgggttcag ccgcaccatc tacagcgaga 240
tcccgcagtg gagcaagctg ctgggcggcg tcttcttcag cttctgggtg ctggcgcacc 300
tgtaccggtt cgccaagggc ctgatggggc ggaaaggggc cggacgccga ccatcgtctt 360
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gtcccag 427

<210> 50723
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-025-Q1-K1-D6
<400> 50723

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agacacttct tgcaagagct gtagcaaadc ggactgatgc ttgtttcatc cgtgtaattg 180
gaagtgagtt agttcagaag tatgtcggcg aagggtgctg gatggtcagg gaacttttcc 240
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gtgctcgttt tgatgatggg gtgggtggcg acaaaatgag gtgcagcgta caatgttgga 360
aatagtaaac cagcttgatg ggtttgatgc aagagggaac atcaaagttc tcatggccac 420
taataggcct ga 432

<210> 50724
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-025-Q1-K1-D7
<400> 50724

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tgtgttgtaa atggggtctt ggaactgatt tcttctgaag ctacctccac tgagcgaact 180
ctaattgtcc catacatcac aagatcgta agctatcatc atggaacgga acatgcaaca 240
aaagcatcga ctgtacttca tgggtgctgaa ataggggcaa caactgacta tactcacctg 300
ttggttggtg ggaccactaa acctccttga catccttgca aatacgtagt gaaccaatat 360
tatgtttgct ggaaatggtg cgtgtgttga aagtgcctac agttcttctt gtcacttctg 420
g 421

<210> 50725
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-025-Q1-K1-D9
<400> 50725

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catcactcac aacaagctct aactccacaa tgggcaactt acccccatat tctcagaacc 120
ctccacacta tatatcaaca tacaaaaaac ctgctctgat tatgaaccac tcgctcaaca 180
actataaatc tcccacttat cattattccc atccacaatg ctagacgccc tcgtaaaaaa 240
taccagacct ccaattgacc tattatatgt tatctagtca aataaaagcg ccattatatt 300
tcacaaaaaa acatcaaaat aaaaaaaca cgccccctct aaaagatc 348

<210> 50726
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E1

<400> 50726

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tgtcgaaggc gtgctcgatt gtggcctcct cctcccgcg ctgctcctcc tccgccgccg 180
ccccacgat gagggggcag ccgtccttgc tgccaagcgt gcggaagcaa tggcccgga 240
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tgggtcgtgt tttttggc 318

<210> 50727
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E2

<400> 50727

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tacgaagccg gcggctgcat cgggaaacc aagaagtcac cgtcgtcacc gagaaggcca 180
tacttctcgt cctattccga ggaccaccag aactgccgct tgatctgtag ctgaagggt 240
ttcaaggacg gtggctgggtg tgacgaaagc gtggagcaca aagtgtgctg ctgctcccat 300
tagaaatata atagcgtatg ttatgttgat gcatatattt atatgcatca tccatctacc 360
tgtgtggtgc aaaattctga ataaaacctg aataa 395

<210> 50728
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E3

<400> 50728

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atcaatgatt aaagcagacc ggaagatcac atcattgaaa caacttcagg gtcatttttg 180
gaggattgga tttcaaaaga aagagctaca gggagttgtc tttgaggatg ttcctgtggc 240
gctaaagaac tggcatgcta gtggcataaa ggtctacata tactcaagtg gaagtagaga 300
agcaciaagg cttctatttg gcaatacaac atttacgggtg acctgcgaaa gttcctgtgt 360
gggtattttg ataccacaac tggaaacaaa agagaaacaa ggagttattt tgagatctct 420
cagtcact 428

<210> 50729

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E4

<400> 50729

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gatcttaaga aacaactcga agatgctcgg tcaaaaggca ttgatgttag ggccttgggtg 120
gttatcaatc caggaaatcc gactgggcag gttcttgctg aagacaacca atatgatata 180
gtgaaattct gtaaaaatga gggccttggt cttctagctg atgaggtata tcaagagaac 240
atctatgttg acaacaagaa atttaactct ttcaagaaga ttgcaagatc catgggatac 300
ggcgaggatg atctccctct agtatcattt cagtctgttt ctccaaagga tactatggag 360
agtgtggtaa aagaggaggt tacatggaga ttactggctt cagtgtctcg gtaagagagc 420
agatcta 427

<210> 50730

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E6

<400> 50730

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 gcaagctcct atagcttccc ttcttccccc gtacctctca ccagcggtgt cttcggtatg 180
 tgaaaaccca attcttcaac cctacaggat ccaacaggca atcacagctg gcatcttacc 240
 tttatcacc ttgttccttc aacaatcatc agccctatta catcagttac ctttgggtgca 300
 tttattggca caaaacatca gggcacaaca actttacaac aacttgtgct agcaaacctt 360
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<210> 50731
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-025-Q1-K1-E7
 <400> 50731

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 aggtgggtgga ggtgccggct gagctggtgg cggtgtgag ccggacgccg tcgtccaaga 180
 cgaaggcgct cgagctcgtc gtgcgctttc tggggaccag ctgccccttc gacgtgtccg 240
 tgcgcatcgt cgaccttggc cacctcgcct actctcactc caaccaggcc ctccttcga 299

<210> 50732
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-025-Q1-K1-F1
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 gcgcttcctg gccgcctccg agccggccgt gtccgtgcag ctcggcgacc acggccacct 180
 cgctactcc cacaccaacc aggcgctcct ccggcccagg tcgttcgcgg ccaaggacga 240
 ggtgttctgc ctgttcgagg ggggtgctgga caacctgggt cgtctgagcc agcagcacgg 300

gctgtcaagc aagggcgcca acgaggtgct tccctcgtca tcgaggccta caagacgctg 360
cgcgaccgcg cgccctaccc ggtcagcttc atgctcgccc agctcacc 408

<210> 50733
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F10

<400> 50733

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acggtatggt gagacggcac aatcacctgc gcatcgaca gttccaccag catctggcag 180
agaagctgga cctggacatg tcggccctgc aatacatgat gaaggaatac cctgggaacg 240
aagaagagcg gatgagagcc gcagatggta agtttgggct gtcaggaag gctcacgtga 300
tgccgatgag gaatctgtct gacgggcaga ggagccgtgt catctttgcg tggctggcat 360
acaggcagcc gcagctattg ctgctggacg agccgacgaa ccatcttgat atcgag 416

<210> 50734
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F11

<400> 50734

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tctaattggct cctatatgac ctaacttaaa ctcaccaaac tctccattca ttcgcaaaat 180
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tatacccctt gttacatcca actgcaacac ctatcaacac attcccaata atcaaacact 300
ctctatctca aaaaagacgc cccctatctc ggtgccatac ctaatctcga acagatcaat 360
actctgatca 370

<210> 50735
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-F12

<400> 50735

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aagaaccctt gatcatatga agttgacagg gtctttccca tattaaagca acagaagtaa 180
aggagggggc tttcttcag ttgtgaggat aactccaca ttggagggtt tggtttgggt 240
tatacataac tgatatgat accaaacgag gggaattgtc tgtaaatacag gagaaccctc 300
tgctgcgcgg aaacttattg caaactgtct ttttatagga aaacgataca tgcaagtttt 360
cagacagga acttgagagg atcatatgta attttgggc acttggtttt gactcctttg 420
gttatcaaaa a 431

<210> 50736
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D5

<400> 50736

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tggggttcaa gagcgacgcg tcgctctact cggccgtcat cacgggcgcc gtcaacgtcc 120
tctccacgct cgtctccgct tactccgctc accgcgtcgg ccgccgatg ctgctgctgg 180
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gcaccttcgt ctctccttc gctggttcc ctgggggccc ctgggctggc tcatccccag 360
cgagaccttc ccgctggaga ccaggtcggc ggggcagagc gtcaccgtct gcgtcaacct 420
gctc 424

<210> 50737
<211> 421

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-B7

 <400> 50737

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 aagaacctt ggtggtggac cttccccaga tgagagtga acacctgctc ctgcaccagc 180
 ggccccctgct gcttcgaggt ccgctggcat agtcatggat gactcccagc catttacatc 240
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 cgtgggagac atcaggtcct tcattcggac gcatctcggg ctggaaccgc atggccgtat 360
 cagctgcaga caggtttccc acccaagcag ctggctgacc caacgcagac cgtggtgcaa 420
 g 421

<210> 50738
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-B8

 <400> 50738

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 gcacctatgg cttgggtgaa gagacttgtt acgctgtgtg acaaggcccc agccacgcca 180
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 cttaaattgt caaatactga tgttgctgtc aaaagggttca acatccagga gccgaacatc 360
 tgatgatggt tgatattcgg aatatgcaag caatggcctt gtttctgcag aagtatgaca 420
 taaac 425

<210> 50739
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B9

<400> 50739

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gtggccagtt ccacctgagc tccagcttct ctgaagggtg acggggccgt aacatctgcc 180
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ttgccaatgc tccagcctag aaagggtggca aaaacttcat gattgatttc atgatggg 358

<210> 50740

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C11

<400> 50740

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ggtggtgggc ggctcagcct cgtgagtgcg gtattgggca aaccggaggc tgccggcaacc 180
ttgtgcagtt cggccacgaa tatactaggg aagatcgcg ccaatcaatc aatcgatgac 240
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ccgaacagac agttgttttg agtatgaatt gctctgcac tgcaaagttg ttgtttgtca 360
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<210> 50741

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C2

<400> 50741

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aacgcgatac gcctatgtca cactatatgt gtcagacgca acatcgatta ccaactgccgt 180
 attatgactg tatgaacggg tttctgtact agggaaatagc gattaactat ccgggtgttg 240
 ataactgccac tggagaggcg cgaagttttg gtgattcagc gtcagcctta tcagttaaata 300
 gcccccttcg atttgttagt atgcctacca tcttgtgaat tgtcagtctt cctagatata 360
 tggatatatca atcatatatt cgggtgtaac tcgtactttc cagtgatattg cgatagggtcc 420
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<210> 50742

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C4

<400> 50742

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 gggaattagg gcgattgcgg accatggcag tgctgccttt cggctttaca caagcttgctc 360
 atcaattgcg gttgcattct ctgtgacgtg cattatccgg tcagagttgt tcttgaaggt 420
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<210> 50743

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C7

<400> 50743

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 ccgccaggc agttcggata catcgtcctc acaacttcgg caggcatcat ggaccacgag 180

gaggcccgcc ggaagagcgt aggaggcaag gttctaggtt tttctattg aaaaagctga 240
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<210> 50744
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C8

<400> 50744

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 tcagcccgtc gccgattaca tcgcccttgc cgaaggcgct acctcgcttt ccaacagcct 360
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 gaaagac 427

<210> 50745
 <211> 66
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D10

<400> 50745

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<210> 50746
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D11

<400> 50746

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ttgtacatca tctccagatg atcataccac ctgaaagatc aatcagttgc caaccctaata 180
gctttctctt aaaagtgtaa acgatgcgct cctaccttac tctgcatgaa ctatgccaga 240
tgtcaaatta ttccatcacc tactatactg tcagataaat gtgtaatcat gtgccgaaat 300
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<210> 50747

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D12

<400> 50747

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aagagaaagg cagaggggag atactctgca catttcagag ggcaagctca tttctttggg 300
tacgaaggaa gatgcggcct tcctactaat tttgattcta actattgcta tgcattaggc 360
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<210> 50748

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-D2

<400> 50748

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atggctcgta ccaagcagac tgctcgcaag tccacgggag ggaaggctcc caggaagcag 120
 cttgccacca aggetgcccg taagtctgcc cccaccactg gtggagtga gaagcctcac 180
 cgctaccgcc ctggaactgt tgccctccgt gagatccgca agtatcagaa gagcactgag 240
 ctgctgatca ggaagetgcc cttccagagg ctctgcaggg aaattgcaca ggacttcaaa 300
 actgatttgc gtttccagag ccatgcggtg cttgcccctt tccaggaggc tgctgaggca 360
 taccttgntg gcctgtttga ggacaccaac ctgtgcgcca tccatgctaa gcgtgtgacc 420
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<210> 50749

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D3

<400> 50749

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 aaggaacgcc cagtcagaat cagatgtgct gttccaaaaa aggatgacca aaaagtcaat 120
 gacaatggga actcagatca tctgaaaagt gaaactagga catgctatga atgcggaacc 180
 cctgggcact cttcttcttc ttgccctaata aagaaggatt ctgaagcaag gaagagctat 240
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<210> 50750

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D4

<400> 50750

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 ctcagctggg accacgcggc tgagctctac gaggacgtcc ttgtcaaggc caagtaccag 180
 tgggtgaacc ttcgccctcc gcatcaatat cttcggtttg atccatttgt acatcgcgcg 240
 tttgacggtc tcggtgaaga acttcatatg cagtgcgcg ccgctggggt cggtagcagt 300

actatgggat tgcattgagc tgtgtcacta tgtgcttttt cgacaggaca gtagtgaaag 360
tgtatgcaag ttattttgtt ttcattactg aatttggaat gcaacacaat aatgaagctc 420
tatgtgttt 429

<210> 50751

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B6

<400> 50751

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agggttacaa agatgtccaa caggggtggca aactcaatcc tgtctggtgt tctgaaagtc 120
actggctttg tcacaagcac cgtgttgaac tccaaaccag cacaaaagtt tttcaagtta 180
atgcctggcg aagttattct tgcttcactt gatggatttg ggaaaatatg ggatgctgtg 240
gaagtgtctg gcaaaaatgt gatgcagaca tcctcagttg tgaccacttc tgttgtaaca 300
cacagatacg gtgaacaagc aggtgaagcc acccacacaa ttacctccac gctacaggaa 360
atgttctcgg agctgcgtgg gctgtattca agattagaaa agccctcgac cctaagggtta 420
atatgaagaa 430

<210> 50752

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-A3

<400> 50752

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gacctacatc ttttctttc aaggcctctt agacctgctc caacagagga ggaactccta 120
aaagacatgg acggtataac tatgaaaatc gatgaagcta ttgcaaattg ggaatcagtt 180
tatggacgat ttcctcaaac tgtccttgat cttgcctctg atggactaaa agaagttatt 240
actggatgta cggagttgat agcattagaa aagccatgtg ctaatgcttt ccggttgtat 300
ctcaagactc gtcctatgcc ttcaaaagan aatctatcaa aagggtaaaa gatttgccctc 360

gtgaggggtct taatccaatt ttcagggatg ttctccggtc aaatgaactt tcagctctt 419

<210> 50753

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A4

<400> 50753

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gttggataca cataatccgg aaagcaagct tgggagcaac aacactagga ctgactgacg 120

cactccgcaa aagtgcacac atcttgagcg agaacacgag ctgtgcttag gccagggcag 180

ggaactgagc ctggtcttcg atcgctggag cagcagctgg tccccgataa ccgccgttgt 240

aaccaccacg gaacccccca cggcccttac cacggccacg gccactaggg ttatagtacc 300

tttcgccttc agctggcttc aagaactcgt tgatgccctt cagggacttc ttgccccgtt 360

cttctctttc agcactttct ttctttttca agtccttgct agagcccagc ttgataaaca 420

ctttatcgcc atcctttt 438

<210> 50754

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A5

<400> 50754

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ctgagaccag gcgcgaggat gctggcgggtg ttcagcggcg aggtgggtgga agtgcccttct 120

tgagattgtg gaaaggtcga gccagactca tgaçcacaag acgaaggcgt gcgaaçcttg 180

cagagcgctt actgacgacc atctgcacgc gtcaacgcgt ccgggcagtt aatatagctc 240

tggcgaattt gctactcgca cgacagccat gccctactgc gctcaaagtc gatcgttgctg 300

aatgatgcag tgatctgact gttcgaagaa atttgctgga caacctgagg cacatgagcc 360

ggtagatcat gct 373

<210> 50755
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-A6

 <400> 50755

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 cttagaagaaa ggtggtcata gccatgccca taatcatcca atggaaaaaa tggcagtcgc 180
 cgatcttgta cttgtacctg cattatcacc ttgtgcaaca actattccag attgtcttgc 240
 tgaaggcaac tcttcctcaa cgatgattct tgcaatcatt gtgctcctct tcagcaccat 300
 cacagtgtat gacattccat tggtgagcca ctttcaaaat tctacagggtg ctagccaata 360
 tcaagttcca ctgggtggag cgttactaca agatcctcgt tggcacggag ctatgcctag 420
 atggagtctt aacatatg 438

<210> 50756
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-025-Q1-K1-A7

 <400> 50756

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 gctatttgga tgtacaactt actgactcgc agttgggtccc catgcactcc aatgaatctg 120
 ccccgctgcc tttttgcctc gggaagctca tgtgagattg ctattgttgc tgggtggatgt 180
 gataagaatg gacagggtgct gaggtctgct gaattgtaca cttcagagat tgggcactgg 240
 gagactatcc cagacatgat cctgaaaagg ctgttctctt caggtttctt catggatggc 300
 aagttttatg tcatcggggg catgaatcca gtcagaggga ttcatagaact tgctgag 357

<210> 50757
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-A8

<400> 50757

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ggtgatcagc ttgctattgg taaggagact ggaaggaggc ttggcatggg taccaacatg 120
tatccatcct ctgcgctgct cggccaaaac aaggatgcta cgcttgaagc gcttctgtga 180
gatgagctca ttgagaaggc cgatggtttt gccggagtct tccctgaaca caagtacgag 240
atcgtgaaga gactgcagga gaagaagcac atcgttggtg tgactggaga tgggtgtcaac 300
gatgccccgg ctcttaagaa ggctgacatc gggntattgc tgttgcggat gctactgacg 360
ctgcgaggag tgcttccgat attgtcctta ctgagccagg tcttagcgtc attatcagcg 420
ccgtcctc 428

<210> 50758

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-A9

<400> 50758

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tgagcaatcg aacgaggcgc tccaggagtc catcaagagt cttaaggctg agaagtccga 120
gctgcgagac gagaagacga ggctcaaggc tgagaaggag aggttggagc agatgctcaa 180
gggcgctcgc agccacgccg cggtaggtgc tccggggccc ttcgtcccgc accctgctgc 240
ggtcgctcca tctttccacc accaccggc ggcgtttgct catgctggaa agttcgctcc 300
gtaccccagc taccgctcgn cagctgcgtt ctggcagtgg ataccgacga cgtccctcga 360
cacgaccaat gaccccgac actggcccga cgtc 394

<210> 50759

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-025-Q1-K1-B1

<400> 50759

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ccgctcacc cccgagcgcc ttctgtctcc tctgtttact cctcggttgc gcgtccctcg 180

cgatcggagg agcagccatg gccggccacg tcttcggcgg cgtgaaggag aaccagccg 240

cggccaacag cgccgagtcc gacgggctcg gccgcttcgc cgtcgatgag cacaacaggc 300

gcgagaacgc gctgctggag ttctgtgcgc cntggtggag gccaaggagc aggtggtggc 360

cggcacgctg caccatgtta cgcttga 387

<210> 50760

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B10

<400> 50760

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gaaagggtaa aaatataagg tgtgataaac cattcttttc taattcatat ttctatttaa 120

ttctattttt ttctattttt ttccaatttt tcttactctt acttttctact tctttttttt 180

ttttttaatt ttcttttttt ctttctattt tctgttcttt tttttttcaa ctttcttatt 240

tattaaatac ctctttttac ccttattttt tctctttttt attatttctt atctttttct 300

ctttctcttt ttttattata acccttctact aatcggtttt tcaatctttt ctttattttt 360

attttttttt ttttattctc cctttatctg ttttttaact cttcttttgt ttttttcttt 420

cttccttttt ctttcttt 438

<210> 50761

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B12

<400> 50761

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atgcgatatcg tgcgtaggtg ttgcttgctg ttgcaacgga ccatccatct agtgcttgca 120
 ttgctgtcgc actcgtcag ctatctccac cgctattggt tgttgtttgg ttaccacgc 180
 cctgctctct gataccagtt gatagcagca gcagctagct ataggttgtc agcaggatcg 240
 accagataga tagcgcggtat cggaattaac agcgctgcaa gaggatggtg aagagcacga 300
 cgacgatggg ggcggcgagc tgcggcgggc gcgtgctgcc gctggcgctc ctgaaccaca 360
 tcagcatcgt gtgccggtcg gtggaggcgt cgctgcgctt ctaca 405

<210> 50762
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B2

<400> 50762
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 aagtgaaaaa aaaaaaaaaa gtaaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaat 120
 ccaaaaaaaaa aaataaaaaa aaaaaaaaaa accaaaaatt aaaaaaaagg gggcgcgttt 180
 tttagggttc caaggtttaa tcccgggggt tttcaacttt atagcttttt tttgggaacc 240
 catattccaa ataaagggcc ctatttttta aaccttttca ctgggaaaac ccttgggttt 300
 cccaatttt 309

<210> 50763
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B3

<400> 50763
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 gtaagtcgtg aaaataaatt acgcttgctg atgatttatg cagcacttaa ccagagaag 120
 tttgaaagcg acaagggtgc aaaattaatg cagttggcag gattatctgc tgatgacatg 180
 attgctgtaa ataatatgct ttgcttatgt gggcctgata caaaaagtc ttcagtaggg 240
 ggttttacac tgaaatttga tgttcacaag aagaacaca caaatcgaaa agagcgaaca 300

ggggaagaat caacatgggc actctctttc gattttaccc tattttggag caattgattg 360
 aaaatcttag caaaggtgag ctgccaaaag atgaatataa ctgtatgaat gaccctagtc 420
 ctactgg 427

<210> 50764
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-025-Q1-K1-B4
 <400> 50764

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 gatgacctaa tggcccaagg aatgcgttat gctaatacagg cccttctttc tggatgctct 120
 gccggtggtg tttctaccat acttcaactgt gatgaattcc atggattggt tccctcgaat 180
 accagagtca aatgcctagc tgatgctgga atgtttcttg acactgttga tgtttctggc 240
 cgtcgggaaa tgagatcctt tttcaatggc attgtgagat tgcagggttc tggaagaagc 300
 ttgcctaggt cttgcacctc acacatggac aaaaccctc gtgctttttc cccagaatg 360
 tgttgccaac catccgaacc ccaacttttg ttttgaacac tgcctatgac gtgtggcagc 420
 ttcaacaaag tgtg 434

<210> 50765
 <211> 425
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-B5
 <400> 50765

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 gggtagcctc ctccaccagc tgcagggggc tacgcgctg ctctccgcc tgcccagggtg 180
 gaaccaggct acggcgggta cctcctcac ccagctgcag ggggctacgc gccgcccct 240
 ccgctgtgct ctgtgcagga gcctggctac ggcgggtacc gtctccatc tgctgggggc 300
 taccggcggg ggtacgggta cagcnaaacc tgcctcgcgc tctggcgtct gaacagaccg 360

tccgcgtcta ctgcaaggcc ggcgaagggt acagcctcac cgtcaggaac ggcaccgtgt 420
gcctg 425

<210> 50766
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-G4

<400> 50766

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accctaggca gttcaagggt cgggactggt tcctcaacag gaagaaggat tacaaggacg 180
gcaggttctc gcaggtcgtc tccaacgccc ttgatatgaa gtcagggac gaccttgaga 240
ggctcaagaa gatcaggaac caccgtggtc tgcgtcacta ctggggcctn cgcgtccgtg 300
gccagcacac caagactact ggtaggcgtg gaaagaccgt tgggtgtctcc aagaagcgat 360
gagctctata tcaccctgag aaatcttggc cgcactaccg tgttggtttg tgtccaaaca 420
gtcctgatg 429

<210> 50767
<211> 484
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G5

<400> 50767

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agattgctca tcatacggcc tttagtcaat ttgatgttgt ccaagatttc tcggatcacc 180
actatgcaaa gacttcagca ggaaagggtc caaaggattg ggtgaaggca atccaaagtg 240
aatgggatct tctacagaaa aacctacctg aatctatata cgttagagtc tatgaggaca 300
ggactgatct gctgagggct gccatagtcg ggccagcagg aactccatac catgatggtc 360

tgtttcttctt cgatgtccgt tttccttgcg aatacccaaa gtgcccacca gtacgtgacc 420
 actagacatc catcatcctg cctctgcctc tctggatatag tttcttccat tcaaagtgag 480
 cagc 484

<210> 50768
 <211> 454
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-G6

<400> 50768

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 atgccaacaa gaggcctaaa atggggcatg tgattcacat gctcgagatg gacgatctac 180
 tattacgaga tgataagaag cccgggagag acgttcatcc tcacggttca gacagataca 240
 gctccaagga ggaagggagc atcagcaagc gcgagcacca ccaccaccac caccatcggc 300
 acagatgata cacagcaagc gcgagcatat gaggattgcc attagagagt agcgacatta 360
 accatgttcc ccacttgttt gccctcccg tcaatctcac tgggtcttga ttgtattata 420
 tgtgagcatn catcattctg tgacgatact tgat 454

<210> 50769
 <211> 486
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G7

<400> 50769

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 cagaaatgac tactatggag gagattgcac ctcaactaac cttaatcagc tctggaagag 240
 gtttagaggg gaagacaagc cccagcaca tctaggtgca agcagagact acaatgtgga 300
 catggtgcc aagtttatga tggcaaatgg gacattggtt cgaaccctca ttcacaccga 360

cgtgacaaag tacttgtcat tcaaagctgt tgatgggagc tatgttgtca gcatagggaa 420
gatttacaag gtccctgcc a ctgatatgga ggctctgaag tccccttga tgggcctatt 480
cgagaa 486

<210> 50770
<211> 465
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-G8
<400> 50770

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gaaggttatt cgccatgaac atctgagagg agcaccactc ttgatagttg caaacaacaa 180
ggatttacct ggagccattg atgaggaaga attggctaaa tttctgcata aagaactgga 240
tgagaggcca tatacatctc aggctgtatc tgcataatgat ggcaggggga tcaaactctgg 300
catagactgg ctggtggaac aaatggaaaa aagcagacgt accgagacac tgcaggctcg 360
tgctggcgta gctggacaaa tttagaatga ggtgaatttg ttaaagaaca nagcattgga 420
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<210> 50771
<211> 452
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-H1
<400> 50771

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tatgcctacc ctgcaccgnc atgggtggcg cctacacatc ctgttgattc taaccctttt 180
ctttcgggtca attaccaaga tccacgcctt gctgccactt ctgttgctca aacagcaaca 240
tatgcacctn cccagcttc atatccccct tcaatatctt atgcacagtt tgcaaccccc 300

cagtcaattc agcatagcaa ttctgtggct tcaccgagca atggtcagat tgcaaataca 360
gcacaaatga atgtgaatca acaacaaaa gattcttcgg cagcatctag cagaccatac 420
tacatacctg ataattctatt cagtgatttg at 452

<210> 50772
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H2

<400> 50772

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cccagtgatc aactcagcat ccaacatagc aatagtgtcc actgggtgatg acaaagcaaa 180
ggctgttcac atagcagttt ctgacatggc cgaaggctctt gatgctccta catcactgcc 240
tgctagaatg gtccagccaa cggacgggaa gctggtatgg attctggaca aggcggcggc 300
atcattcctt gactccaaga acgacgacga cgacgcttgc tacgatcgtc acgagtgact 360
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<210> 50773
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H3

<400> 50773

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tattcagact gccacatatac tatatactcc aaccttcatt acttaatcca gaccatacac 180
ataacagaat cagacatacc actatcacat aaccctacta cattacatca tattagactg 240
gtcacaacta cacacttgaa gcatttactg ctcatggacc agtcacttat tatgatacta 300
gctcactaga tcgacaaaca tcacgatatac atacttcatg acgataat 348

<210> 50774
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H4

<400> 50774

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actccattat cgagttgctg gccatcagtc tagcattcat cagtttgtgc ccattattcg 180
atggccacga atcattcctt ctgggttttg ctatggatta tcgcttgga ttccatcagt 240
tgctcctcac cttggcaagg gaatactggg caagccacca atcattcctt ctgggttttg 300
ctacggattg tcgcttgaga ttccatcagt tgctcctcac cttggtaacg gaatactggg 360
caagccacca agtaataaa cacccttaga tcaacggagc tcaactcaac tagtgcacgt 420
acgggatcca caccagcata catgtcagca atcatgtggc 460

<210> 50775
<211> 482
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H5

<400> 50775

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gtcattcctc tgtagacagg cagagctctg gttacttgga ccttcagtct tttatgcaga 180
ccatagcttc aagggaagga ggcagaccaa tgtcagagat ccgcaatgtc ttcgatcaga 240
ttcgtcaggg gagaaatgca cgattggagg atttgcttct cattgaccgg tcaattatta 300
tgagacgagc taatttgatt gatagacatc gggatatgag gcttgatgtg gataatatgt 360
cctatgagga attgctggca ctaggtgaac gcattgggta cgtaaacaca ggacttactg 420
aagaaaagat tttgagtaac ttgaaacaat ggaaatgtgt cttaaaatca tgggatgatc 480
ct 482

<210> 50776
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H6

<400> 50776

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 ccgtggcacg agtgcacgtc ggtggcagca ggagatggtg gggacggcgg aaggcggcgc 120
 ggagagggcg gtgcggcggg gggcggcgc cgtcggcggg cgcttggtcc tggacggcgg 180
 gctggccacg gagctcgagg ccaacggcgc cgaccttaac gacccgctct ggagcgccaa 240
 gtgcctactg tactaccgcg acctcatgcg gaagggccat atggactacc tagaagctgg 300
 ggcgaaacatt ataatcaca 319

<210> 50777
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H7

<400> 50777

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 cgacgaggca cgcagccacc gcgcgatggc cgacggctcc agcagcagcg gcggggcgca 120
 gaacgggggt gagtcggtgg tgattgacta cggccggcgc cgactacct gcggctactg 180
 ccgatccttc gggcccacga gcattctcca cggatatgtg gctaacagtc tgaaagctga 240
 tgactatcaa gctcttcttg atcgtggttg gaggagatct ggggtgttctc tttaaccaacc 300
 tgagatggaa cggacatgct gccctcata tacgatacgc ttgaaagcaa atgatttcat 360
 ttgttcaga gagcaagctc gggacttaa caagatacaa aggttccttg atggcgagct 420
 cgatccacag attggaagcc cttagtgtaa ggcaagttca 460

<210> 50778
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-H8

<400> 50778

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aggatacagc aagtcaaaca gctccaaagg gctgacaaac atccaagcaa atgccgcgga 120
ggagaccagc acaaggcgtg ctgcattgga ggcgtcgatt aacgaagtgc tgttccagat 180
cataaagttc gccaacgaga aaaaggacca cattcttgct atccctgaca ggattttcaa 240
tcacgagatc atgatcccaa gctcggattc tggattcgga tggaacacgg acgt 294

<210> 50779

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A11

<400> 50779

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aggggggatga attaggttca cgatcaagct ctattgtgtt ctaagaaact ttctgtgctc 120
tcccaatttt acattattag gaagcggatg aatatgcatg cagttttgtt gtttggaact 180
agatgtgtat ggaagaaaca tgatcttttt tctaaaaaaa aaaaaaaaaa aaaaaataaa 240
aaaaaaaaaa aaaaaaaaaa aatataggac aaaattattht aaaagataaa aatattaaaa 300
ctatatatat aaatattaat agatat 326

<210> 50780

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-E2

<400> 50780

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gcatgcgcgt tgccgcgacc cgagccgccc ccgccgctca ccctccgagc gccttcctgc 120
tcctcctgtt actcctcggg tgccgcgtccc tcgcgatcgg aggagcagcc atggccggcc 180
acgtcctcgg cggcgtgaag gagaaccag ccgcggccaa cagcgcgag tccgacgggc 240

tcggccgctt cgccgtcgat gagcacaaca ggcgcgagaa cgcgctgctg gagttcgtgc 300
 gcgtggtgga ggccaaggag caggtggtgg cgggcacgct gcaccacctt acgctcgagg 360
 ccgtcgagggc cgggaggaag aagctctacg aggccaaagg ctgggtcaag ccatggctcg 420
 acttcaagga gctccaggaa ttcagccaca aggg 454

<210> 50781
 <211> 481
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-E3

<400> 50781

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 caatacacat gtgtgttgag gaacaagtgg ccatgttttt gaacacagtg tgacagaacc 180
 ttaggaatag gttggtggga acaaattatg gtagatctgg tgagactgtt actcgctact 240
 tcaacaaagt gctttgtgct attgcagagc taccagctgc acttattagg ccaccatgct 300
 tatagactcc atccaaaata gcatgaaatc caagatggga tccctacttt aaagtgtgat 360
 attcagctat tcaatattct acttcaagaa ttttcactat ttaaaccat aataccctta 420
 attgtatttt ggctctgatt ggatacacat aggattgcat tggagctatt gatggcacac 480
 a 481

<210> 50782
 <211> 485
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-E4

<400> 50782

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 acggcgcgtc catagggctt tgaaagcaag taaaatcctg ttagatttct gatctaaacc 120
 ctaagatttc tgatgttggg atggcaagga tatttccatc ggatgccact caagcaacag 180

ccagcagact tgtgggcaca tagtaagggtg gatacatggc taatgaattg catctgatgg 240
ccttctctcg atcaagtcag atgttttcag tttagtatta atgggtgtatc tgtatgggtgt 300
tctacattat ttccttccat aaaacctgng aactgtggaa agacaggaga tggaataagt 360
tcaatgatca atcatttgggt gatgactacg aactggaaga gctgatgaaa taccttgctg 420
agttgctgtg gtatttgtgt gtgttatgag aaaaaaaca atggatcatc ctacaatgcc 480
tgatg 485

<210> 50783
<211> 467
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-E5

<400> 50783
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atgcgctcgcc gaccagatcc ttctcctgtc aggcgtgggtg gcacacctcc tcgcaggaga 120
ccactgtctc cagttagaag gcgttctcct tcaccaccta ggaggcatag gtcaccgatg 180
cgtccttcac ctaggagggg acgtggcagt ccttcaccac gcaggcgctc ccctgggcct 240
cttaggcggc gctcgccacc tccaaggcgt ttgaggagcc caccaagaag gccaccacct 300
tcacgtcgtc atagtcgatc tccttctcgc cgacccttc gctccagatc gatttctcca 360
agaaggggac gagggcctct cttgaggcgt ggtangtcag gctcatcatt atctcgatca 420
cctacttcac cgncaagaaa gggccaagaa ggtatcaagg agtcgca 467

<210> 50784
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-E6

<400> 50784
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gggacctcaa cgtcacgccc gccgccttcg cctcctactg cgccgtgctc cagagcgaga 120

tggcctacct ggacgacgcg cccgcgcccc tcgtcgaggc gcccccaagg ctgcactact 180
gctacggcgc cgccggcacg tctgaccgcc acgacgaccc cgccgcggtc gcagcagccg 240
ccgcagcctg ccaccgtcac agcagccagc cgcagctcac tgtctgatcg accggccctg 300
caagcgtgcc cgaccggtgg atgcagccgt ttcttttctt ttcttttctt tgttgtcctg 360
gcggnngcgc ctggctggtg gtgtcgactc gtcttcttcc ttggtgatgg tctgtcttgg 420
tacatatgtg ttggtcgttc ggtgctagtg agctctc 457

<210> 50785
<211> 469
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-E7

<400> 50785
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cagctaagca cactacagca ccggggcgagg cggctaggcc ccctcaccgt ccaccggcga 120
ctggggccggc cgtcgtctgcc gccctgcctc tccaccgtcg ccggcgacga gcaccactag 180
gtgtttttga gtctgttgcg agtggttggtg ccatgtccat gttcaatagg atcttcggga 240
agcccaagga gcaggccaac tccaatgctt tggccactct ggacaagtta aatgagacac 300
ttgatatgct ggagaagaaa gaaaagggtgc tggagaaaaa agcaaacgct gagcttgaga 360
gagccaagga gttctcgaaa gcaaagaata aaagagcggc tatccaatcc ttgaagagga 420
aaaaactnta tgagcaacan attgagcagc tnggnanatt ttcagttga 469

<210> 50786
<211> 175
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-024-Q1-K1-F1

<400> 50786
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aaaaaaaaaca aaaaaaaaaa aaaaaaaaag aaaattttca aaattaaata tccaacttac 120
ttacacccat cttccaacat ctaattcttt tacaaccaat cctaaattcc ttcca 175

<210> 50787
 <211> 473
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-F2

 <400> 50787

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 agaggggatgt taccgggagc aggaaggctg ttgtcatcca cgtcccatac cgcttgcgca 120
 aggccttcag gaagatccat gtcagactcg tcaggagct ggagaagaaa ttcagcggca 180
 aggatgtggt aattgttgc tacaaggagga ttgtgaggcc acccaagaag ggttcagctg 240
 ttctgcgccc tcgcaccagg actctgactg ctgttcacga tggcatcttg gaggatgttg 300
 tctaccagc tgagattgtg gggaagcgtg tcagataccg tctggatggt tccaagatta 360
 tcaagatttt cttggaccca aaggagagga acaacactga atacaagctg gagacctgca 420
 ctgcggtcta ccgcaggctg tgtgggaaag atgtggtctt tgagtaccct atg 473

<210> 50788
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-F3

 <400> 50788

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 gccggccgga gaggcgatga tgacgcacca gcaccagcag cagcaacagg cgccggcgctc 180
 gtggttcgcg gactacctgc acgcggggcg cccaggcatg gggatggact acgacctgct 240
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 gctgctggtg gacacaggcg gtgaccgagg aggttcgcc gcgcccacgc ccacgcccag 360
 cgggggcggc acggcgccgg tcacgcccac caccacgtcg tccatgtcct gctcgtccag 420
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<210> 50789
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-F4

<400> 50789

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ccggcggcgt gggaggagcc ggacgagttc aggcgcggagc ggttccgcga cggcaaggcc 180
gagggccggc tgatgctgcc gttcgggatg ggacggcgca ggtgccccgg ggagacgctc 240
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ccgttgaggg ccacctgcaa gcctcgcgaa gccatgcgtc atgttcttca gcagctctga 420
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<210> 50790
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F5

<400> 50790

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cgcgctctgc tctaagtgga cttcttaagg atgatgggat tctggtgatt ccaactgctt 120
tggggtgccc ccgaagctt aacgctaagg aactctcgtc tgaaagctac aattctcaga 180
cactacgcct tttgtcttta gctagcatgt cagggtgttg ccaggtttcc attcctttgg 240
gtacacatga taagtgcgcc atttcagttt cgttgattgc taggcatggt ggtgatcggt 300
ttttgttggg caccacacaa accatgtata caaccatcca agagcaagtg gagatactag 360
cgaaatctag tgtttcaagt aaacaggcga tgaatgaaga agcagctgaa gctgctaaag 420
agaaaggtaa tgctgcattt aaggaaaaac aatggcaaaa agcagtaaat ttctacactg 480
aac 483

<210> 50791
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F6

<400> 50791

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 cggtcttagg gggctacgcg ccgacgccta cggctggcct aatggaacca ggctacggcg 180
 ggtacccttc tacagcagct gcagggggct acgcgcctcc tactgcaggt gctcagatgg 240
 aaccaggcta cggactgtac cctactacgc catctgcaag gggctactcg ccgacacata 300
 cgactgtgcc tgtgcaggag cctgactac 329

<210> 50792
 <211> 477
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F7

<400> 50792

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 tgggcgcccc aggagggccg ccgatcagct cacctagaat ccggctgaaa gacggccggc 180
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 agctgggcat atacatgctc ttcttcgaca gagccgggta tggcgacagc gacccaacc 360
 cgaagcgctg cctcaagagc gacgccacgg acgtcgaaga gctcgccgac gcgctgcagc 420
 tcggggacag gttctacgtg gtaggggtgct ccgtgggcgg ctaccagca tggagct 477

<210> 50793
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C2

<400> 50793

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atgataagat ttactaaaa cacattctta tttttcaaat caaattcatt taattgtacc 180
aattgatgca attttaagac tgtgccaaact atatgcacat cgtgctcgta taacggcaac 240
aactatctat gtgttaacaa tgtagcatta cttacactag atatctcgct aaatcgtagt 300
aattcatact ttgttcaata tgcattagac ttcaattctt tcaagagttt caatcttaca 360
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<210> 50794

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-024-Q1-K1-C3

<400> 50794

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tgatcgatat gatggtgggc gctatgtgga cagcagggat acttattatg gttccggggc 180
cgatcgctat gcaccggcag cagaacgcta ttctggtgac aggtacagtg gtgcagatcg 240
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tggaggttac taccgtgatg aaccgagggg cactggtggc tatggcagag gtggttcacg 360
tggcggcggc ggcggtgggc ctgctcgctt tgggtgggagt taccgagata ggctgcttc 420
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<210> 50795

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C4

<400> 50795

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ggggaggaac tgcgtgacgc aggtggccaa gaagtcgctg agcctgaacg cccggggcgg 120

gctccacaac gcgcgcttct gcgagaagga cctgcagacg gcgatcgacc gcgaggcggt 180

gttcgcgtac gcggacgacc cgtgcagccc caactaccgc ctgatgcaga agctccgcgc 240

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cttcgccaaag gtggccgagt tcgagcagca ggtccgcgcg gcgctgccc aaggagggtgga 360

ggccgcgcgc gcggccgtgg agagcggcag ccccttggtc cccaacagga tcagggagtg 420

ccggtcctac ccgctgtacc ggttcgtgcg cgaggacgtc ggcaccgagt acctgaccgg 480

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<210> 50796

<211> 481

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-024-Q1-K1-C5

<400> 50796

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cggcactgcc tcccactcct cctcctcgtg gccgccgccc tcgcgcgcgt ccttgcctcg 120

gcggcgctgg gcggcgggcg cggcccgtg ctgggcgggt ggaaccgat ccctgacgtg 180

agcgactcgc acatccagga gctaggcggg tgggcgctgg ggcaggcgaa gcaccagaag 240

ctggccgccc acgggctgcg gttccgcgc gtggtgcgcg gcgagcagca ggtcgtgtcc 300

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gtcgcgctcg tgtacgagca ggtctggacc cgcacccgcc agctcgctn cttcaaccgc 420

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<210> 50797

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C7

<400> 50797

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aaacaaacaa tataacaacaa tataaactaa tat 153

<210> 50798

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D2

<400> 50798

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tggccaagtt cctgctgaat ttgcagtgcc caggcccgat gcaaactatgg ccgaagcttc 180
agatggagcc gagaagatgg acacagatgg tgagaaccaa gagggcggtg aggctgatgg 240
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ctgggtcatc cattgtctga gttaggtttg ccagttttcg tgggggtgca agaaagagct 360
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tggcttattt ttgcagt 437

<210> 50799

<211> 490

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D4

<400> 50799

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tggtcagaag gttcttcaga attacaagaa tctccaagat attattgcca ttctgggaat 180
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agaacagtca ttctacatgg ttggaggaat agaggaggtc atcgccaagg cagagaagat 420
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aacgtgatgt 490

<210> 50800
<211> 488
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-D6

<400> 50800

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tcgcactgca gccacaacgg gcacaactcg cggacgtgcc ccaaccgcgg ggtcaagatc 180
ttcggggtgc gcctcaccga tggctcggcc atccgcaaga gcgcaagcat ggggaacctc 240
tccctcctct ccgcggggtc aaccagcggc ggcgcgctcg ccgccgacgg gcccgcacctc 300
gccgacggcg gcgggggcta cgccttcgac gacttcgtcc aggggtcgtc ctncgccagc 360
cgcgagcgta agaaaggtgt tccttggact gaagaagaac accggaggtt tttgctggga 420
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D8

<400> 50801

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gtgttttttt tgggaaagaa acatacaatt tttgtttctca ttctagtatc gtctacctat 180
 gtcaaaactac aatatgatag gacccttgct aaataattgt ttcgtttgct ggtaaaatat 240
 acctaatata cagagagtaa aacaacaaga gcagcgaaaa ccgacgacgg gcccgacctc 300
 gtcgacgaag gcaatggcta cgccttcgac gacttacatg caaaagttgt acttcgacag 360
 cctcgaacgt aagaaagggtg ttcctttgca ctgaagaaga acacctgaag ttattgctgg 420
 gattacaaaa gc 432

<210> 50802
 <211> 483
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B8

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 ttttaagactc gacggcctcg aaatcttcgc ctcgaatctc caggcaattg gttctacctg 180
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 ttcgctagtt gctcgttgcc gcgacttaag gactatcgac gtgacgtgct gccatcttct 300
 taaaaatgct gcccttgctg caatcgccga gaactgtaga aagattgaat gccttcggct 360
 tgaatcctgc cctttcgtaa gcgagaaggg actagagtcg atcgcaactc tctgttccga 420
 ccttaaggag attgacctca ccgattgtcg tattaatgac gcagctttgc agcagttggc 480
 aag 483

<210> 50803
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H8

<400> 50803
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gctccgtgca ctgcgtcaac accgccctgc aaggccccctt attatccgag ttcgacctgg 180
acgcgctcgc cgtctacctg gaccaacctg agctcctggg gatgctcaag ggctacctaa 240
gctctgggtgc gggctacgct gctgcagggg acttctttgt ccagcgcgag ggctctcaca 300
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<210> 50804

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H9

<400> 50804

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ggcgacatga ctgcgggcaa ccagcgtgac cgcgaccgtg agcgcgcggc ggcgcggaag 120
cccaacgcca agaactccca ggacgggctc acccgggagc agcgccgcga gagggacaag 180
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acctccacgg acaacaacaa gaacaaggca ggtggcaaga agtaggaggc agtggcgcg 300
cgtcacctct gtacgattaa tcgatgcctt gagcttgtaa cttgttcgca tccttgtagg 360
tgcgatgctt gttgggtcat aaactctgat gatatcgaga tttggtgatc agaaatatgc 420
gt 422

<210> 50805

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A3

<400> 50805

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acattttgac acaaccatct cagtttagaa aatttgatgc ggagctgact tcagtgaag 180
agtgttagct tgccatttca gtgtatccaa ttgttgcca ctgtagtcta tatcggtgtt 240
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tgcatgcttt gat

313

<210> 50806
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A4

<400> 50806

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accagaagt ctttatgtgg tgtcaaacat agttttcaact aaaatttcat aatcgctttt 180
ccactagcta cctcatattt ttgaaacgca acttgtgact ttacccaaat gaaattaatc 240
atatctccat tgcatactcc ccccataaat attccccaaa tttcttttaa gattgatttt 300
atcatcaata agcctcataa tatccac 327

<210> 50807
<211> 477
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 50807

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ggagaacacg ttcagcgggt tcctgcaggg cgccggcgcc gacaccgagg cgagggccgt 120
gttcgcggag gggtcctgt tctgcccgtt cctgttcggc aacttcttcg acccggccga 180
cccgttcccg ctgtgggagt tcgagtccga cgtgctgctc gccgcgctcc gccgcggcaa 240
cgccaggacc accgtcgact gggccgagac cgactgcgag tactacctca gagccgacgt 300
gccaggtgga aggagatgag acgtggaggt gagcgngac gcgatgaagg tgatcgacat 360
ctgcgggctg tggcgggcgc cggcgcgga cggccgggac tggcgctgag gccggtggtg 420
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<210> 50808
<211> 484

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 50808

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 gtagtttttag tggttgggct tgacttccta ctattcagaa acacagtacc gagaagtctt 180
 taggtggggg caaagatggg gtcgctgaag ttgcaaaagc gccttgccgc gagctacctc 240
 aagtgtggga aaggcaagggt gtggcttgac ccaaataag ttagtgagat ctccatggca 300
 aactcccgcc agaatatccg gaagttggtt aaggatgggt ttatcatcaa gaagcctcat 360
 aagatccact ctagatcccc tgcaagaagg gcacatgacg ccaagcaaaa gggacgccac 420
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 atga 484

<210> 50809
 <211> 482
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-024-Q1-K1-A7
 <400> 50809

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 aaactggtct tccctacggg agtaacgggt atgattccag gatatatggt cgatgtgggtc 180
 ttggtaatgg tatggataac aggtacaggc ccagggcatg tagtggatac tatggttatg 240
 gcaatgagag tcaggatgga acaattgagt taaacagagg tcctagatct ggccgggttca 300
 agaaccagaa attgtacggc catactgtca ctattgctgt gaaagggcag tctctccctt 360
 ctagtgaaag caagaatgat agtgctgtgc ctgatagagc aaagtacaat agagatgact 420
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<210> 50810
<211> 469
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 50810

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gtgatcggcc accccaccga tggatcctcc gtcagcggcg gcggcctcag ccagaatggt 180
agatttagct atggctatgc aagctcccct ggtaaaaggg catccatgga agacttctat 240
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catggtggtg ctaaggtagc agagtatgtt aaagaaaacc tgttcaacaa tcttgtagt 360
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<210> 50811
<211> 489
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-024-Q1-K1-B2

<400> 50811

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ccaatcaaga gcatgatccc agtcgcggag gaggtggtca gggctaggga gattgccaat 180
gagggcgtct ccagactgct caaggttggt cctgttcagt catgcaagtt ttgtcatgaa 240
gttcacattg gaaccacggg tcatcagatg aaaacatgct atggtttcaa gcgtatgatc 300
aaggacagac cacatgaatg ggaaccgggc aacttgaatg acatccttgt tcctgttcag 360
gctttccacc agaaaaatat gtttgagcat gagataaac atgaccagcg gttcgacttc 420
actcgcgtcc cagctgtact tgagctgtgc catcacgcan gtgcagacat acctgatgag 480

attctatac

489

<210> 50812

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B4

<400> 50812

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gaaggatggg cttcgagaag cagatcctga gatccggcac cggccccaag ccgataaagg 180
gccagaaggt caccgttcac tgcaccggct acgggaagga tcgtgatctg tccaagaaat 240
tttggagcac caaggaccct gggcagcagc cattcagttt cagcattggg cagggttcag 300
tgatcaaagg atgggacgag ggagttatga ccatgcaagt ggggtgaagtt gctcgtatcc 360
agtgcacgcc tgattatgct tatggagccg ggggggtccc agcctgtgga attcaaccaa 420
actcagtgtc tgtgttcgag attgaagtcc tcagtgccca gtaattcgc 469

<210> 50813

<211> 475

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B5

<400> 50813

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ccgctgccct agctccaaac agaattaggg aatacgggtca acctcccatg gctactgccg 120
tgtagcgcat ctgacagtcc acaaaaacct aagattcggc accaagtcac taaccgaagg 180
aaggtcgaga tgaggaagga tgtgatttga tctcgaatat caactacatc tgtctagcgt 240
cgagacacat gtgcggtagt gctaagttgg ttctgtcttt cagtttcttt ctatatccta 300
tttctgtgaa aatattttat gtgagtgatg taaactgatt gccagaatta atggatgttt 360
tgcagctacg ccagaagctg atggttgtgg gtaaaacatt tttgttctgt aatccccagg 420
ctagcaagtt tcaacttaaac aaaggttcag gctttcgttg tttgcaaggt actat 475

<210> 50814
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-B6

 <400> 50814

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 gcctataacg cctcctatac tgtcccccaa aacctattat ttggcaccaa ggtttataac 180
 caacggaact gtcaaaaccc tgaatgcac ccatctcacc tccaatatca actaattccc 240
 tattagccct gatacccata taccctaaaag ctcagcacca tttgcctttc acatcatttg 300
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 tggattactc gcacc 375

<210> 50815
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-024-Q1-K1-B7

 <400> 50815

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 tggaaggaga tgagggctgc aacgtcctgg gaggacgttg agaacctggt ctggggagag 180
 ctgaaccggt accaggactc tgcagttcgc tcagcataac taaacaccag caaaaaaaaa 240
 aaaaaaaact ttctgaacat acgtgtatgt tgttgttcct ccgacgaatg taacttccaa 300
 atataaaaaa aaagtgtagg gaaaataacg aaggctcgac acggcatgcc cgtattttcc 360
 tatggctggt gataatattg agatccctga aatggttcta tgaaatgaac cgcagaccgt 420
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<210> 50816
 <211> 344
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H7

<400> 50816

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ccctatacaa agccaagctt atacgtgggt tctgccaaact ctactacggt caggaggact 180

gcagtcgtct gcatggaggc cgacatcacc cggctctgatt tcattatcac cgtctaccga 240

gaccactgga cctacctcgc ccgcggaggg gacctagtct gcgacttcta cgagctgatg 300

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<210> 50817

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G12

<400> 50817

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tgatgtacga tgattatcac gagtacttca agcgctcatt tgaggaaaac atcgctgcgc 180

acgtgcctca gggagtgga tgggggttaca actatcgatt gggggaaatc aggcatagga 240

gggcctgttg acggaccaag tgacgaggca agattgtcta atgattttga agttcattat 300

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<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G5

<400> 50818

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 agatgcgctg gttctgaagg gggattacga cctgatgtcc tctcaaagat gtgtacctcg 360
 gcagtgaagg agtccttaac caatatattat ggtgacagat ttcatagctt catga 415

<210> 50819
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G6

<400> 50819

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 gcacactgat gtggctatac tgctggacaa tgaggccatc tacgacatct gccgccgatc 360
 ccttgacatt gagcgcccaa cctacaccaa cctcaacagg ctt 403

<210> 50820
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G7

<400> 50820

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 taccctgcc tctgaaccaa tctttctgct attgctgctg ctgctgtac tgctgtggct 180
 gcgaatgggg aacaggaagg ctacatcaac gctgacatag ctaacgttaa tctcctggca 240

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272

<210> 50821
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-G8

<400> 50821

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cgcactacgg gcacacgggg tcgtaccaca ccagccacaa cagcta 406

<210> 50822
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H12

<400> 50822

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acaggtgcaa tagctcttat gcagttgcaa gataacttga cgaagtatat gagtgtgag 180
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gattctctgt ggaagcttaa cgttgctgac atagaagcca cattatccca tgtctgtcaa 300
atgggtacttc aagacagtaa tgccagaaag gaggaattgc gccttcgtgc taaaggctta 360
aaaact 366

<210> 50823
<211> 364

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H2

<400> 50823

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<210> 50824
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H3

<400> 50824

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acaatgttgt taacatgggt atccttgacc gtctgaaatt agcgtggaag ataatgacta  300
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<210> 50825
 <211> 151
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H4

<400> 50825

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 agcaaatagc gcgcgcgcac cagtcgtcaa t 151

<210> 50826
 <211> 371
 <212> DNA
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 <223> Clone ID: LIB3079-023-Q1-K1-H5
 <400> 50826

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<210> 50827
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-H6
 <400> 50827

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 aattgtcggc cgtgtgaaga tcgaatcaag gcctctgac cttgtagaag cgaaggataa 240
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 ccctaacaca ggatcaagtg gaaggaccgg cattcccgtg acttcgctga aagtcggtga 360
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<210> 50828
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-023-Q1-K1-G11

<400> 50828

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 agatcaaccg ccaggtcacc ttcgccaagc gccgcaacgg cctgctcaag aaggcgtacg 180
 agctctcggt gctctgcgac gccgaggtcg cgctcatcat cttctccaac cgcggaagc 240
 tctacgagtt ctccagcacg cagagcatgc caaaaacact tgaaaagtac caaaaatgca 300
 gttttgcagg gcctgaaaca gcactccaga atagagagaa tgagcaactg aaaagtagcc 360
 gcaatgagta cctcanactg aaggcacgtg ttgataattt acagcggact c 411

<210> 50829
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E8

<400> 50829

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 gccacaggac agactatatg atcatgcaca acatgggcct ggccattcta atacaagccg 180
 tcctctactt agcgctgata accagcttcc tcatggccat cgggcttcac atctacgca 240
 gctagtagac ggccggaaca tgatgacata tacagactaa caggatgctc cgacggaggc 300
 atccacttca agatctgcgg ttccagctac ggtcgtatag gctgtctcta attctatgga 360

<210> 50830
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E9

<400> 50830

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gaaaaaaaaa aagaaaaaaaa caacaaccaa aaaacatact actaaaaata aacaaaccac 120
atactaaaca tctacgcctt cctttatgac tcctttctta caaagtctga catctatctt 180
aacaatgcta ttctaactga ttagaaacac ttgcctatgt atgactaatc gcctagcatg 240
atcaaagttg aatatattgc cagacgagcc acccagaact ctatcacggg tgcccaatgg 300
atgcttcaaa ctctgggtgc aacaagctac atgagatgca 340

<210> 50831

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F1

<400> 50831

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gcgtctactc atgacatcgc atcatcagac tcgagaggac atatgatcaa agcggggcca 120
gattaatgct gacctatcaa caagctatac caatgactac ccacactgat acacgacatc 180
attcatcgca actcaaacgt cagcgaacct tacactcttt caacaacata cttctgcagc 240
agcaagaact gtgcttgatg tactaacagg acatgcagag gctgacccat acttactcat 300
ctgtatcact tgaaaatatt gctcattctg atcaacttgt cccaacaagg gatcctgaaa 360
cacacttact atccatgac gaata 385

<210> 50832

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F10

<400> 50832

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cgtagtgcg caccgacacg ttgagctcgc gtccgtccca gatccgacgt gtcctccat 120

cgctcgcgca agatgaagat cacggtgcgg gggtcggaga tgggtgtaccc ggcggcggag 180
acgccgcgcc gccggctctg gaactcgagg cccgacctgg tgggtgccgcg gttccacacg 240
cccagcgtct actttcttcg ccgcgaggac gccgacggga acgacctggc gggcgcggac 300
gggagcttct tcgacggggc gcggatgcgg cgcgcgctgg ccgaggcgct cgtgcccttc 360
taccgatgg ccggccggat ggccgcgcgac gaggacggcc gcgtcgagat cg 412

<210> 50833
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F11

<400> 50833

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atgccattcg ctccgcatat tattcagttc cttgatgctc tgtacaatgg gaaggatatg 120
gatgatactg tgatgaagac tgcaataggt gtcttggggag atctggctga cacattaagt 180
gtccatgctg gccctttgat caatcaatcc acctcaagcc aggcattttt agaggaaatgc 240
ttggcatcag acgataccttt ggtgaaagaa tctgccgatt gggcgaggat agcagtcagc 300
cgtgcagttt cgggttgatg ccacagtgag tctcgagtct gcacttgcac cccatccaca 360
tgtcatcatg cctggggctt taa 383

<210> 50834
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F12

<400> 50834

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cttgaacaga aggacgagag ggatatgaaa tctgaactgt gtgttgatct tgaattaaac 120
caagttattg accgaaatgt aggagatctt tctggtggag agcttaagag atttgcaata 180
ccagttgctg ctgtgtataa tgctcaaata tatatgtgcg atgagccatc aagctacctt 240
gatgtgaagc ataggctaaa agctggacca gtcactaggt ccttgcttag gcctaacacc 300

tatgtcatcg ataggaaca tgatttcagt gtcttgtatt acttgtgcga cttcatttgc 360
 tgcctatatg gcaagccatg tgcttata 388

<210> 50835
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F2

<400> 50835

gtcttcttgt tataattacc actgtgtcta tgaattgtgg gtctagctgg gtctatgaag 60
 ggtgagtctg atgacaattt tacaaacttg tttcttgcctg atggtaaata tcagaatctc 120
 tcgctgcatt gtgagtgtgt taaaaaaaga tacaaaatgc tatagaaaaa aataaaacaa 180
 aacactcaac aatgcatgct aataaaaaat gatacaaaag gacaatagca ta 232

<210> 50836
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-023-Q1-K1-F6

<400> 50836

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 gaccaagggc cgcggcttcc gcgaggacc taactcctcc gcgaccgcg actcgcgctt 120
 tggcgcgggg ggacgcgccg acctcgactc gcttggcggc cctggacca tccagtcaat 180
 tgaaggatgg attgtgttgg tcacaggagt tcacgaagaa gctcaagaag atgaccttca 240
 aaatgctttc caagaatttg ggcaggtcaa aaacctgcat ttgaatttgg accgccgtac 300
 cggatttgtc aaggggtacg ctttgattga atacgagaag tttgaagaag ctcaggctgc 360
 aataaaagaa ctggatggag ctgagctnta taaacaaaga atgagtgttg attgggcatt 420
 t 421

<210> 50837
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F8

<400> 50837

ccacaagaac gtgttcgcct tagttgtttg cgtgttctgc atcagcttgc gtctaggaca 60
acttgtgcag aagctatggc agcaacaagt gcaggaactc ctcaggttgt accactgctt 120
atgaaagcaa ttggatggca aggtggaagt atactggcat tggagacatt aaagcgtgta 180
gttgggtgctg gtaatcgggc tctgatgct cttgttgac aggggcttaa ggttggctctt 240
gttgaagtac tccttggat tcttgattgg cgtgttggtg gaagacaggg gctctgtaat 300
caaataaagt ggaatgaatc agaggcttca attggacgtg ttttggctgt ggaggtgctt 360
catgcttttg caaccgaagg tgcacattgt gcta 394

<210> 50838

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F9

<400> 50838

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ttataaaaaa atacaaatta aaataaaaaa 120
aaataaaaaa taatgtttct ttttttgtgt cacctatttt aatttctctg cctttcattt 180
taaaactttt tttttgtgta acactatttt tattcccttt ttattctttt taaaacatat 240
ccctttttta acctttgggt ttaccacttt tatgcccttt cctttcaatt ttcttttcag 300
attctcattt tttatggaat atgtcacgcc ctttgtcttt tccattaat 350

<210> 50839

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-G10

<400> 50839

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cagctaactg cactgcactg cactgcacgc aatggccacc acggcgaccg aggcggccaa 120
 ggctgcaccg gcgcaggagc agcaggccaa cggcaacggc aacggcgagc agaagacgcg 180
 ccactccgag gtcggccaca agagcctgct caagagcgac gacctgtacc agtacatcct 240
 ggacacgagc gtgtacccgc gggagccgga gagcatgaag gagctgcgcg agatcacccn 300
 caagcaccca tggaacctga tgaccacctt cgnccgacgag ggccagttcc tcaacatgct 360
 catcaagctc 370

<210> 50840

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E6

<400> 50840

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 aaaaataata acatatgacc atgacacaaa tacacaagaa tactacaata tctatactat 120
 ccctttatat atctaactat atattatgaa ctacttactt ctcttgga gctctatacc 180
 ttaactcgac tatgcttttg aaatccttcg cttactatgt tccatactcc tacagagtga 240
 aagattgatg gtaatacgtg cactatcaag acttatctga tattaatatg aatctatcta 300
 tgacacatct acttggctaa caatctctcc gaactcatca acatattcta ccattaatac 360
 aactgctcgt ata 373

<210> 50841

<211> 417

<212> DNA

<213> Zea mays

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<400> 50841

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 catccgtttc ccactgctcc tccgtggctc agctctgctc cctgtatcgg tctgcccctc 120
 tgccctcccg gtctctcctc ttcccgtccc gccacgcgcg tccaccaagg aagccccac 180
 gccacggcat ggggatcgtg gaggaggcgc acaacctgcg cgtggtgggc gaggggaagc 240

gcgggggtcat cgtgctggcg cacggcttcg gcaccgacca gtccgtcttg aagcatctgg 300
 tgccgcacct cgtcgccgac taccgcgtcg tgctcttcga caccatgggc gccggcccca 360
 ccaacccgga ctacttcgac ttctcccgt actccacgct cgagggctac gcgctcg 417

<210> 50842
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D11

<400> 50842

ggaaaaatcg ccccatcccc tgactatcac tggctcactg cccttccacc tacagggggc 60
 agcggccatg gtgaagaagc ccaacggtgt cgccaaggcc acggcgacct ctgctgacgc 120
 ggcagcccag ccattccaagg agaatccgtc caccctggg ttggtcaagg cctcgaagtt 180
 taagaagaga aaggtcaagg ccaaccgtgc gaagcaggca gtcgctgcag cagctattga 240
 cgaggctgcc cctgtaggtg caggcactgg tgatggcgat gcactctgcat cagcggcttt 300
 accgcaacca tccgatgttg ccgaggcatt acttgtggtg caaacgcca agtcaaccac 360
 ttttctgag gcatcacctg tggcacagac gcagaagcca gccactgatg ctg 413

<210> 50843
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D12

<400> 50843

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 aaagagaagc aatccgttcc tgaatgctcg ctccaaaaaa gtgttagttc tggatgcctc 120
 aactcagcag attggatgaa tggacctgcc aggccaaact ttctagactt ccaggggctg 180
 gactttgagg cagcatttgg gctgaggaga gcttacagcg aaggagacat tcagaacctt 240
 ggagccaaca cgctctgacc agcagcaaact gtttgtgtga ccatcagtga cctcaagacc 300
 gaagaaagga agcaaaagct ttccaggtat aggaagaaga agatcaagcg gaactttggc 360
 aggaagatca tgtacgcgtg catgaaggct ctggcagaca gccagccaag agtg 414

<210> 50844
 <211> 406
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-023-Q1-K1-D2

<400> 50844

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ggagatctac ctgcactcgc tccccgtcaa ggagcaccag atcgtcgaga ccctcgtccc 120
ggggctcaag gacgagggtca tgaagatcac gcccggtccag aagcagaccc gtgccgggca 180
gcgcacccgc ttcaaggcct tcgtcgttgt cggcgatggc gacggccacg tcggcctggg 240
agtcaagtgc gccaaaggagg tggccaccgc catccgcggc gccatcatcc tagccaagct 300
ctccgtcgtc cccgtcagga ggggggtactg ggggaacaag atcggacagc cccacaccgt 360
gccctgncag gtcaccggca agtgtggctc cgtcactgtg cgcatg 406
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<210> 50845
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D4

<400> 50845

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agtatccatc ttcaagtgc ggacacagta ctgcaggaag tcttccaaag cattggtcca 120
gtagaagggt gcaagctcat cagaaaagaa aagtcaccc tttggtttcat tgactactat 180
gaccgcagat atgctgcact agcaatttta tctctcaatg gcagacaact gtatggtcag 240
ccgattaaag tcaattgggc atatacaagt actccgaggg aggacacatc aggtcattct 300
aatatttatg ttggggatct ttgcccgaa gtcactgatg ctactatgtt tgcatttttc 360
tctggatact ctacttgctc agatgctagg gttatg 396
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<210> 50846
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D8

<400> 50846

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tgggcatggg ctgcatgtca cgaccgggat gctcttcacg aggaagagct tgctatcagg 180
gacagtctta ccggatggta ccaagatctg tggacacggc ttactcgatt ccgaaagggt 240
tgaactacaa ggggatgcag atgcatctc gttcagctgc agccagctgg acaccatcct 300
gaggatgttt cggatccctc gggggtgcaa gaaggcatag caagtcggcg tcacgtccg 360
gacatgctac gctg 374

<210> 50847

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-D9

<400> 50847

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gccgggacca ccgacggcga cgatgggcgg cggcgagggc aagtccaaga aacgccgctc 120
ttctacctcc tcagcggatg aagaaggggg ggaacggaag aggcgggaca agaaggagag 180
caagaggagg agccgagacg acagggagga tgacgatgac agacacaaga agaaggggaa 240
acacatcgac aggaacaaag gaaaagagag agattcgaag gataggcatt ccaaggagaa 300
gacgagcaag agaaaagaca aggacgtgc cttcaaagaa atatccaagg atgactactt 360
tgcaaagaac aacgagttcg ctacctggtt gaaggaggaa aaggggcaat atttc 415

<210> 50848

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E10

<400> 50848

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atggcatgcg ctcaatgcaa gtggctaaat gggtgcagtc acagggtttc aaaaaagttt 120
acaatgttgc ggggtggaatt catgcctatg cgggttaaagc cgactcctct atcccaacgt 180
attagaggat cctcatggtg acactttagc acggctgccg gctgggaact tctcatatat 240
cttaggcatt gacgttgatc aatgcttgaa ttcagagctc aattttattt ctcatactgt 300
gtatcagaaa gttttgggac tcttagggag gaaaaatata cagctatttt tgttaaaaaa 360
agatacttga gaaattgctt tattgaacga accgtttcat cagg 404

<210> 50849

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-E11

<400> 50849

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cggcgtgaag ggcttcgtgt ccaacctcgt ccacggcggc ggcgggccatg gccatggaag 180
cggctacggc catggccatg gaaacggcta cggccatggg aatggcggct acggcggcgg 240
ccacgggtac cctcctcccg ccgccgccgg cgcgtaccct catccgcacg gcgcgtaccc 300
tcaccgcac ggcgggccac ggtaccctnc tcccgcacc taccgcgcgc actcggcgca 360
ctacgggcac acggggtcgt accacaccag ccacaaca 398

<210> 50850

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E12

<400> 50850

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atgggtcgtc cgccgagcac cactggtgct ccggccttgc ggtttctacc ttccgaggtg 180

gcggaaatgg aggcgcgctt gctgcagctc aacaacggca tctgcaccct cgccatgctc 240
cagactctcg ccgattagtt cttcgtctcg ccgaacgcg cctgcaaggt ggccatccag 300
cccaagcagg tgtggaactg gtttcagaac aggcgttact cgcacgcggc caagaccacc 360
atggtcgtgc cgtctccacc ggctaagatg acccgcgcg tggccgatca ccaccagcac 420
g 421

<210> 50851
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-E2

<400> 50851

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ggaagcactg actggctata ccgcacgtgt cactacgctt gacgggcgga gcctatcatt 180
gcacatcaac tcaataatcc atccaaagta cgaagagggt atgcctggag agggcatgcc 240
agtgcccaag gacccccaaa agaagggaat tctgcggatt aagttcaaca taatgttccc 300
ctctaggctg acttctgatc agaaggccgg gatcaagagg ctattgggtt cttaggccgt 360
cacctcaaat gacatcttct ntatgatga 389

<210> 50852
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E4

<400> 50852

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ccctttatag aggaaaaaat atattatcag ctacaagatg ctcttggcaa gttggatacc 180
aaaactcgac tatgcattcg agatagtttg cttcgtttgg tccatagtgc aacagagaga 240
aagattgatg gtgataggag cactaacaag actaataaag atgaagatga agcttcggaa 300

gacgcatcta ctaggaaaac aaggctctcca aacaaggaag cagaaacaac cactaatcca 360
attgatcgta tagtggccca ttgctgttc cacagac 397

<210> 50853
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E5

<400> 50853

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ggagcttcta ggtagaaaaa atcgatgtat tattaagcac ctaactgatc ttaatatata 120
caagcattta aggctaggtg ctgctttggc tggctatacc gcatgtgtca cttcattaat 180
cagtc 185

<210> 50854
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B7

<400> 50854

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gacaggcagg aacacgagac agatgactat caacgggttat acataactct agcactacgc 180
aatgggcctg atgagtacat tcatactagc aactggaatg cctatgcaag cgatgccgat 240
tgtagggtccc gtacatcaaa catttggaca cttatgaacc taggttatat ggccctggcat 300
acacgtatag tctacaccct gcagatgact acatcttgtg cctgacggac ttgaacatgc 360
gacctatttc a 371

<210> 50855
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-B9

<400> 50855

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agcccgtccc aaagaaacag aagaaagaag attaagcaac atggagaagc tgcagaaagt 180
tcttcctggt tgtttaggat tctgttccaa cactcgctcc acatctgaac aaatggcacc 240
agtataggaa gttgttggca acttgttacg agaaaagaac atagtcggac tattgctata 300
taacaacatt tctgtgctgn tgtttttagc acttagcagt gtaccatgac ttgaatagtt 360
catataactg ccttttagata ttgactgc 388

<210> 50856

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C10

<400> 50856

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tctgtttttg gcattctagg tacgctgctg cctgtgctgt gttgtgcacc aggaatgctg 180
gatttcgttc tcaccgtacg atacgacttg catgcatggc agcatgatcg atggcatgat 240
gcgtgccaaa cgattgctcg tcgtcgtcat catcatcact catcagtgtt ttttttacac 300
cgagtgaaaa tattcccaca ggtttactga cagaaattcc catatgatat gtatcttcct 360
ttggtaatth cctgcaggca acatcatctc atttctgggtg ttctctgcac cagtgtaaagt 420
gcact 425

<210> 50857

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C11

<400> 50857

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 ctctgaagc agacttcccc gctggcgctg gaggagatca agctcaagtt cattgacaca 180
 tcgtccaaat ttgggcacgg tcgcttccag actaccgatg agaagcagag gttctttggt 240
 aagctcaagg cgtaagggtg tgcggtgcag cgaaagtccc atttgtcaaa atcatcaaac 300
 tgtgaaacct ttgtttgtta ccttgctgta ccaagttttg tagcatgatg atttgggagc 360
 atgttccggt cttcaatgga ttgttctacg cttcagaact gcagtgacta tgttttgtgc 420
 tattt 425

<210> 50858
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-C12
 <400> 50858

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 gagatcaaga gtaaagagtg tggggagggg aaggacgca tatcggggga ggatggtgct 180
 tgtgcttgcg ctgggggatc tgcacatccc gcaccgggtg cccgacctgc ccgccaaatt 240
 caagtccatg ctctgtcccc gcaagatcca acacatcatc tgcgctggca acctctgcat 300
 caaggaagtt catgactacc tgaaaagcct ttgccctgat ctccacatta ctggaggtga 360
 atatgatgag tatgctcgat acccagagac taagacactt tacaatggtc agtttaagc 419

<210> 50859
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-023-Q1-K1-C3
 <400> 50859

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 ggctcaacct catggccatg atgatggcgc agaacatgcc ggccatgggt ggactctacc 120

agtaccagct gccagctac cgcaccaacc cctgtggcgt ctacgctggc attccgccct 180
 actactgatt catgatattt gggaaatctc ctctatccat ctctctctat ctatatatgt 240
 aataatgcag taagacgaca cacattatca tgtgtggtat gaccaataat atatgcatgg 300
 gcataataaa gatttggggt taatg 325

<210> 50860

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C4

<400> 50860

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 gcgccatgtg cggcgcgctgc ttgccatcg cctgcgacgc ggggcgggtcc cagtggtgca 120
 agccggggcg cgctccgctc acggtcacgg ccaccaacct gtgcccgcgc aactggggcg 180
 tcccggggcg cgccggggcg tggtgcaacc cgccgcgcgc ccacttcgac atgtcgacgc 240
 cggcggtgga ggccatcgcc gtgtaccgcg ccgggatcgt gcccgtaac taccgccgcg 300
 tcccggtccg cagggccggc ggcgtcaggt tcaccgtcca ggggcgcagc tacttcgagc 360
 tggtcaccgt cgccaacgtg ggcggcagcg gcgt 394

<210> 50861

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C7

<400> 50861

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 cggcagcaga ggggagcaga gagatctcat tctccgatcc gaccagtcca ccatggcgga 120
 ggatgctacg agcagccacc cgtcacgcta cgtgaagctc accagggacc aggacgtcct 180
 cgccgaggac atgcgccccg gcgagctcaa ccagccagtt cacgtcccg cagtcgaagg 240
 ccggaggtgt agcgagtgcg gtcaggtcct gcccgagagc tacgagccga ccgccgacga 300
 gccctggacc accgggatct taggatgcac cgatgacca gagacctgcc gaactggatg 360

gttttgcccc tgcgtgct

378

<210> 50862
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-C9

<400> 50862

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ctccgaagat tctcaagacg ccctgatgg ctccccgcgt cgctccgct ctgctcttcg 120
tcgtggccgt cctcgtggcc tccgcggcgg cgcaggagtc catggcgccc gcgctctgctc 180
cggcgccggg accggtcgct ggcgcgccct ccgctccggc ctccgctgtg gccgtggtgt 240
cgtccgcact gctgtccctc cttatgacgg ccctgatgca gtagaagtat catactagat 300
ttgagcggga atttggttca gtgttgctat tctcattct ttttgatatca tatatgtctg 360
cgacatttat atatatgaat aaagttggat gatctgctgc 400

<210> 50863
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-023-Q1-K1-B3

<400> 50863

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aaaattgaca aggataaggt aaaagcagct ttggagaagc gaaggaaatc gaaaggtggt 120
tttgccacga aggtaaatgt gattgatgat gatgatctac ttgagagaga gctagaacaa 180
ggtgttgagt tggctgttga gtttgagaag attaataagc ataagaagca gaactcgtcc 240
gatggtagca tgcattccacc agaccttgaa aacgctgacg aattaatgga gaatggccac 300
catgtcaagc agagtctacc aacgacagct gaagacatgg gctgtccgat ggacagtaaa 360
gaacgacatc ctncagcact tcataagcaa aatgat 396

<210> 50864
<211> 408

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-H9

 <400> 50864

 gagataacgg ggcgcgcgt cgctgcggc ggcaagcggc tgaaggccat gaccgaggcg 60
 gagctcaact acccgtcgct ggtggtgaag ctgctgtccc gcccggtcac cgtccgccgg 120
 accgtgacca atgtcgggaa ggccagctcc gtgtacaggg ccgtggtgga catgcccagc 180
 agggccgtgt ccgtggtggt ggggcccccg acgctgcggt tcgacagggg gaacgagaag 240
 cggagcttca ccgtgacggt gcggtggagc gggccgccgg ccgtcggcgg cgtcgaggcg 300
 aacctgaagt ggggtgtcag ggatcacgta gtccgcagcc cgatcgtgat accgccggcg 360
 aaggccaccg cgtaggcgta gctcccagcc caaatgcca attgatga 408

<210> 50865
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-A1

 <400> 50865

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 gcactcatgg ctccaggcga tatatgaccg aatgcaggct tgagggatag aaccatcgat 120
 aacaagcatc gagcatcttc tgattaggta tcttctgcag gcttttttac gttcaagaga 180
 taaattaaag cctctagaac tgaacggtgc atatatacaa tgttgagcgg caggaaggct 240
 cttgattgct gatctagcat gatcgtagc ctgcggtatc agaaacacga ttgactcaga 300
 gcatttggtc aatgagatct gagaggcttt aaat 334

<210> 50866
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-A11

 <400> 50866

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gggctgagga agaagagcag gaagatggca agaggtctga tgatgaccaa cagtatgggg 120
 aggatgaaga ctaccatggc gaagaccaat atgataaaca ggtgaagcat gtacatgccca 180
 acgggggattt tcaacacctt ctaaaatgaa acttctggca acgcttaaata ccctaaatgg 240
 ggagatactg gctggaattg gtggaagttg ggggtgctgag aagcttgacc ctcgggcgta 300
 ctgaagttgc ttctgtctgg atcacctttt ttttcgcatt atgtgtgcta tactctgtaa 360
 attatcaaac tggctttctc aatgcctatg taatgaaccg ttgagtga 408

<210> 50867
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A2

<400> 50867

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 gaccatagcc ctttctattc tgaagcaggt tatggaggag aaggtgacct caaacaacgt 180
 cgatattgcc aaggttgctc ccaagtacca cctctacacc cctgccgagg tcgaagccgt 240
 gatcgcgagg ctgtgaaacg ctttcggagc tcgtgttatt catgtcatca atcggtaata 300
 gacgatcctt gtacgaagcg tggacatctt ttgttcttga ttatggctgt catcgtactc 360
 tgttggttaac tccacaagga cagtcgatgg tactttgatt c 401

<210> 50868
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A3

<400> 50868

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 ttgtcgtaaa cctcaagcgg cagcagctgc agaagacgcc gccgccgacg ccgcctcgtg 180
 cctcagttgc tatcaggagg aagaggtacc cagctaaccg gccctgctcg agtttcccaa 240

gcttcctctg ctcaagtttc agcagcatca gcgacagttt cctgcaatca cacaagtaca 300
ctgtacacgt acgcaggctg aggctgatga gggtgagagc cggagcagag gccatggaga 360
tggtgaacct gaagctctac ctggag 386

<210> 50869
<211> 223
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-023-Q1-K1-A4
<400> 50869

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gcatagctgg gtacctttta acttctgttt gtgggatttg ctagagtgat ggtttcgata 120
tataggggga cttgaatgtc tggaatgcta cgggtataacg cacatttggg tgcaatgtct 180
gttgcatgac tgtctgaatg acatcggttg tacattttatt ttc 223

<210> 50870
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-023-Q1-K1-A5
<400> 50870

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ctagtataca gaaaaaagca gaagagatac ggggatgtct aagacggcgg gcgtcggcag 120
actcggagga gccggggcgg cggacgcggc gcagcagcag cagctggcgg cgggtgatgc 180
tgcggtggcg cgggcggcac ggcccatcga gacgctgctg ggcgcggcgc cgctggtgct 240
gtgcgtggcc gtcattgacc ttatgctacg tgaccagcag agcaatgagt acggcaccgt 300
aggctactcc gacctggggg gcttcaaata cctcgtctac gccaacggac tgtgcgccga 360
ctactcgtg gcgt 374

<210> 50871
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A6

<400> 50871

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gcgcgacctc aaccggagcg ctttctgcgg gatggactcc aagatgggcg tgctgatgcg 120
ctacgtgcgg gcggcgctcg cggaacctgg caaggaggag gactcgctcg actgtcgacg 180
tcacctacta ccggagctac aacgaaggca cccccgcat gcacgccgac gtattcgacg 240
agctggagca gatggcgctg cgcaagtacg gtgcgctccc gactggggc aagaaccgca 300
acttcgcctt cgacggcgtc atcgccaggt accccgcgtc agcgcggtt ctgtacgaga 360
acgacaggta cgaccggac 380

<210> 50872

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A7

<400> 50872

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atccagcaat ccagtaacg gatgctgagc gtgagtcaac aacgcacgac ctttgaggga 120
ttaaaactga agccgaaaca cctgcagatg aactgtcgg cagcgctgta tatatactca 180
gaggatatca aactacaaa gatcccatct taccgacat gatgcagagt accaagcttc 240
ctgtgctcaa gtacatgtag catcaatcac agttgcctgc aattacacaa gttcactgta 300
cacgtacaca tgcagaggca ttacaagttg agagccggag cacaggccat ctagat 356

<210> 50873

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-023-Q1-K1-A9

<400> 50873

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ctaactgaac ccatggcgct ctccgccgct cgccggctct ccaccaccgc gtccctcctcc 120
tccgtcgccg acgcgccgcc aaagctctct togetgttcc agaacccgaa gcctcgaccg 180
ctgcctgtcc gcgggcgctga ggagccgcgg cggggggcca ggcccaggcc gaggcagccc 240
tgggaggagg aggcgggggc gctgctgctg cggtccaca aggggaggta cctnccgggc 300
cccgaacctct cgtcggcgcc gcacgtgtc tcacccgacg ccgtcaagac cgccgccgag 360
tggttcgggc atgaccacca gcccgtcgcc aaatggctgt cagggagtga 410

<210> 50874

<211> 204

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B10

<400> 50874

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gaatataaaa aaacaaataa aaaaaaacac atacaatcta agaaataaaa catactatag 120
cagaacctgg attcaaaca ttccatctaa cataatacac aataacaagt tatacattct 180
tgacgttaat gctgtttatt ttct 204

<210> 50875

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B11

<400> 50875

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gcaatgcaag gcgctgtctg agacttcaga agttctgaag ctgcaggccg gagctagcag 180
ggcctctttg ttctgctcga tccagtttgt gctgctgtgc atagccattg ggaccctcct 240
cgttcgcttc ctgtcctctt ctccggagat tgtacctact tgaggttaga gaattatgcc 300
agtcagcctt tatgtaggcg ttgttgaacg gttgtttact gtaacttatt agggcatcaa 360
tcgccttaca gattttcggt ttttgtacca tcaactcgat tttgctagta atttctttat 420

gaata

425

<210> 50876
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B12

<400> 50876

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agaagctcga caatcactac aaaatggatc tgaccccaaa gaaagaagcc atcaaagtta 180
tgatccaaga cgagttgacc aagctatcag aggaggatga agaaggagag ggagacgaag 240
acgccgggaa gaaacagcag cagcctcagg cgcaggagat cgaggcatga gggatccgcg 300
gaaccccgta gctgtagtag ccactgttaa ttatcctgta cttagtgcgt atgtgtcgca 360
tgtacaggca tcctttgttg atttcagcca ccaacttgag aacctcacc cctgattgtg 420
tatgctaa 428

<210> 50877
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H8

<400> 50877

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catggctgat caccaccggg gtgcgacggg aggtggcggg ggctacggcg acctccagcg 120
cgggggcggc atgcacggcg aggcgcagca gcagcagaag cagggcgcca tgatgacggc 180
gctcaaggcc gcgacggccg cgaccttcgg cgggtcgatg ctggtgctgt ccgggctgat 240
cctggccggc accgtgatcg cgctcacggt ggccaccccc gtgctggtga tcttcagccc 300
ggtgctggtg cggccgccat cgcgctggcg ctcat 335

<210> 50878
<211> 393
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F8

<400> 50878

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gccaccgtcg gcatccaggg catcgcttg tccttcggag gaatgatctt cgcgctcgtc 180

tactgcaccg ccggcatctc cggaggacac atcaacccat ctgtgacttt cgggctgttc 240

ttagccagga agctgtccct gactagggcc ctctttctaca tcatcatgca atgcctgggt 300

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ggtggcgcca atgttgctgc acctggctac acc 393

<210> 50879

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-G10

<400> 50879

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gtggtggagg tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gccaagacg 180

aaggcgctgc agctggtggg gcgcttcctg gccgcctccg agccggccgt gtccgtgcag 240

ctcggcgacc acggtcacct cgcctactcc cacaccaacc atgcgctcct tccgcccagg 300

tcgttcgagg ccaaggacga ggtgttctgc ctgttcgagg ggggtgctgga caacctgngt 360

cgtctgagcc agcagcacgg gctgtcaagc aaggg 395

<210> 50880

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G11

<400> 50880

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tcttccttgt cagtttcatt ggcctatttg ctcttgtgcc tctgagaaag gttatgatcg 120
tcgactacaa acttacgtat cctagtggca cggcgactgc ttatctcatc aacggtttcc 180
acacgccaga gggtgccaag cttgcaaaga aacaagtga gactctgggg aaattcttct 240
tgatgagctt cctctggggc ttcttccagt ggttctacac tgggtggagat aattgtggat 300
tccagaactt ccctacatta ggcc 324

<210> 50881
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G3

<400> 50881

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tttctgaata ccctttgtac tcaaccctca taactcttca tgggggaact cttgtcccct 120
attaacttaa tgaaaaaacc ggggtgggggt tggagaactc tgatcttaaa aagcaactgg 180
aaaatgctcg gtcaaaaagc attgatggta aggccttggg gggtta 225

<210> 50882
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-G5

<400> 50882

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ggaacgtgga caacttcttc aacgagaacg agcagctggc gttcgggccg gngctggtgg 120
tgccagtgat ctactactcg gacgacaaga tgctgcagtg ccgggtgttc gcctacgccg 180
acacgcagcg ctacaggctg ggtcccaact acctgatgct gcccgtaac gcgccgcgct 240
gcgcgcacca caacaaccac tacgacggcg ccatgaactt catgcaccgt gacgaggagg 300
tggtactacta cccgtccagg cacgcg 326

<210> 50883
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-G6

<400> 50883

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gcgacggcct atgcgccgag atcgtcngca ccttcatect cgtctacacc gtcttcttcc 120
gcaccgacgc caagaggaac gccagggact cccatgtgcc gatcctcggc cctcttccaa 180
tcgggtttgc cgtgttcttc gtcacactgg ccaccatccc tatcaccggc accggcatca 240
accccgcgcg gagccttggc gccgncgtaa tttaacaacca gcaccatgcg tgggctgacc 300
actggatct 309

<210> 50884
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G7

<400> 50884

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cccgccgcgc cattgtccag gtctcctacg ccatcggcgt gcccgagccc ctttcggtgt 120
tcgtggacac gtacggcacc ggcgcgatcc ccgacaagga gatcctgaag atcgtgaagg 180
agaacttcga cttcaggccc ggcatgatca tcatcaacct cgacctcaag aaaggcggca 240
acgggcgcta cctcaagacg gcggcctacg ggcactttgg gagggacgac cccgacttca 300
cctgggaggt ggtgaagccc ctcaaggcgg agaagccgtc ttctgcatga ggcgcctcct 360
ctgttttggg agaagctttt ggtctggtct ggtctggtct 400

<210> 50885
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-G8

<400> 50885

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aatgtccgcg acaaaggtta cctttccttt agtttggacc aatacctgct gcagccaccc 120

tctgtaccgt gagtctgagc ttatccagga gaactacctt ggtgtgagaa atgcaacaca 180

gaggaagcta ctggatgagc tgggcatccc agcagaagat gcccagttg accaattcac 240

ccctctgggc cgaatgcttt acaaggcacc atctgacggg aaatgggggg agcatgagct 300

tgactacctg ctgttcacgc 320

<210> 50886

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H10

<400> 50886

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cgctgcccc acgccacca cccaccccg ccccgcccc taccgcgcgg tgcccgagac 120

ccagaggcca gacccctttc ttcaccttcc ttcccatcgc aatcgcaagc ccccggtctc 180

ggcgctcggc ggtcgccag gttcgggaga tcaacttcgtc gcggcgagga gggaggggg 240

cgccgctagc gcgcggcact tggatgagaa gggcaacggg ggaagaggat gcggaaggcg 300

tacagggact ccatcaaggt gctcgaagct gacatccaac acgccaacac cctggcctcc 360

gagttttccc g 371

<210> 50887

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H11

<400> 50887

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acggatggaa ctggatatac aaaactttat gcagaaccct cagctgcagg agtttgaatt 120

ccagaacttt ccgacttctt acctccgctg tgctgctcat cgtgttgac aacattatgg 180

cttagagact atagtagcag atagtttagt agaaggctca gttagcagga ttgttgcaag 240
 aaaaacagca gaaagcaggt atcctgcaat ttttttatca gaagttccta gcaatcaagc 300
 aagaaatgat catgaaacag ctgagaagct taagtttgct atttatcaaa ggcccaaagc 360
 attccaaaat ggaagcgctg attct 385

<210> 50888
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-H12

<400> 50888

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 tggcattagt atcaatcttg tcgaagtcac gtggaaatca aaactcaagg cacagttccc 180
 tagtccaaat gaatattcat ctttcatggg tgattttctcg actgcaactg gaattgcaac 240
 tttcacaatg atgctgtag gccgtattat actacggaaa tttggctggg gtgtggctgc 300
 aaagatcacc cccaccgttc tgttgctgac tgggtgttga ttcttctctc tgattttgtt 360
 tggacagcca ctgactccta tgcttgccac tatgggtatg acccccct 408

<210> 50889
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H2

<400> 50889

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 cggggttccg gtttgtgggt gaaccgatcc aa 92

<210> 50890
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H4

<400> 50890

gccggtgacg ctggatctcg gtggcaagtc ccctttcatt gtcattggacg acgccggcgt 60
cgaccaggcc gtcgagctcg cgcaccaggc ggtctttcttc aaccagggcc aatgctgctg 120
cgccgggtcg cggacgttcg tgcacgagcg cgtgtacgac gagttcgtgg agaagtccaa 180
ggcccgcgcc ctgaagcgcg tcgtcggcga ccccttcattg gacggtgtcg aacaggggcc 240
tcagatcgac ggcgagcaat tcaacaagat cttgcggtac gtccagtccg gcgtcgacag 300
cggtgccacc ctgctcgccg gcggcgacag ggtaggcgac aggtgcttct acatac 356

<210> 50891

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F7

<400> 50891

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agtatatcct cagatggctt cctagaggca cacatgagtg gtccaaactg gttaccccgg 120
aggagcttgt cctaattgctg caaaaggctt ccgtctccgt cgaagagatg gcaggggttcg 180
tttacaatcc gttgagtgga gaatggtccc tgtcagatga tatcagtgtg aactacattg 240
cttttggcgt caagaagggt gaagcatcat cgacaaatgg cagagatgca agtttatcat 300
agctgaagaa aaacacgtga ccttgaattg tcgggcatca ttttcagagg accaattcat 360
gtcactgaaa tcttactgct aaggatgca 389

<210> 50892

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H5

<400> 50892

gcttaacaaa acagcccctc gaaccatggt tgttttgcgt cctctaaagg tggtagaac 60
taacttggaa gaaggaaaag tactagacct tgatgggaaa atgtggccag atgcttctga 120

tactgatgct tcctctcact ataagcttcc gttctcaaga actgtctaca ttgagaaaac 180
 tgatttttgcg cttaaggact caaaaagacta ctatgggctg gcccttggtta aatctgtcat 240
 gctaagggtat gcgttcccca taaaatgcac agacgttata tatggtgata ctctgatga 300
 tattgttgaa attcgagcag aatatgatcc tttgaagact tctaaactta aggggtgttct 360
 gcactgg 367

<210> 50893
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H7

<400> 50893

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggaaaaaaga 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaact 120
 taaaaaaaaa aaaaaaaaaa aaaaatcttg attttccagt cttaatttaa ataaattaca 180
 ataagcaata acataaaata acataaaaaa aatggatatt ttaacaaata cacattttga 240
 acgaacaaca tttaaaaaac taaaattata taaaaaccta catatgataa ttcacaattc 300
 atgtttttta acatatatca cacattgttt acattaaaaa atacactatt gcctactttt 360
 taaacattca cacaaaacat ttatatttta 390

<210> 50894
 <211> 299
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-D6

<400> 50894

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 tcttcgtcgt caaggttccg gcggcttcca gtgatgtgtt cgccacagaa cgagcagcac 180
 ctgctgcagg agcaaact taacaacaat gctcgtcctc cagagaagag gcagcgggtt 240
 ccgtcggcgt ataacagatt catcaaggaa gagatacgca ngatcaaagc gaacaacc 299

<210> 50895
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D8

<400> 50895

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tttacaacaa cgtgactact aaaaaaaccc tgtcaccaaa caaattaatc ttgtagcaca   180
tcatcctttt ttcagctgct gtcataacaa agaagacgcc accaatgatc gttcttaaca   240
acagctgagc atgcttaatg aataatacga cccgcgctgc agcgcacatc taaccgcggg   300
tggttggtgt actaccagca gaatcaccac tatagtcagc agcgtactag cgcccgttcc   360
ttctgctttc cttcccttct ttgtcacc                                     388
  
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<210> 50896
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D9

<400> 50896

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cgaacgccgg agctcgacat ggacgaccga cgacgcacgc ggagatccgg cgtactgcaa   60
attttgaaaa ctgaactgta agatggcatc agcagagctt tcccgtagagg aaaatgtgta   120
catggcgaag ctgcgtgagc aggcggagag gtacgaggag atggttgagt tcatggagaa   180
ggtagccaag actggtgact cggaggagct cactgtggag gagcgaaacc tcttgtctgt   240
tgcatacaag aacgtcattg gagcccgccg cgcctcatgg cgcacatctt cctccatcga   300
gcagaaggaa gagggccgag gcaatgagga ccgagtaaca ctcatcaagg attatcgtgg   360
caagattgag actgagc                                             377
  
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<210> 50897
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E10

<400> 50897

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tcgtctcgtc gctcgcgcct cgccgactcg tgggggtgcc aattaactgc gcggggcagg 120
ccggcgggtg gctgctctac tacgcgcttg tggaagagga gatccagggc tccgagttca 180
tctacatggt cgacgacctg gccgtctcca gcgtgatact ggggtttgat gctcccagga 240
a 241

<210> 50898

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-E11

<400> 50898

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tcttgctgcg ggggcaagtg cggttgcggc tccagctgct cctgcggcag cggatgcaac 120
ggctgcggta tgtaccctga cgtggagacc gccgccacca gcagcgtcaa gaccacggtc 180
ctcgccgcgc cgaccaccaa ggccagcgcc ggcggttcg aggcggccac cgagggcggc 240
ggctgcgact gcaacacctg caagtgcggc accagctgcg gctgctcctg ctgcagctgc 300
aactgagctg gcccggcccc gcgatggcgc acgagagtcg agaggaggag gacgactacg 360
aggcgtataa atataatagc g 381

<210> 50899

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E12

<400> 50899

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gctttcagaa aatttggtgc atgctgctgt acggaggaag tctgttaaca tggtagatt 120

tctgctgaga tacagaccaa acaaaaaactc caaggggact gcacagacat acttatttat 180
acctgatgct ctggggccgt caatgattac cccctccat atagcagctg ccactagtga 240
tgcagaggat gtgttgatg tgctgaccga tgatcctgga ctgattggaa ttagtgcttg 300
gagcaatgca cgggacggaa catgttttac ccataagat tatgctcggc agagaggcaa 360
tgatgcttac ctgaatctgg t 381

<210> 50900
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E4

<400> 50900

cccacccgtc cgattacctg cctatacaga ctaacaggag ttgttttcgt aaaacgcgtg 60
ggaatctaca aagattgtac tctgtgctgt attgctgtgg aatgctctac ccctgtaaca 120
gtgtctaagg taactgcttt tgcccatgtt ttagggcttc aagagataat ggtaattcct 180
tgtctattgt tgtgatgac ctaattttat ccttacagtg ctcatctttg tcttgagaa 240
ggaggagccc tttcccatcc ccgagaaggc gtgagagctg ttctccatct cctaggaggc 300
gcaatagtcc acctccatca cggaagcgtt acagaagaaa gagcagtcgg agtgtcatta 360
gctctccagt tact 374

<210> 50901
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E5

<400> 50901

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aagaagtcaa acatgacaat actgttacat gggtggcctt ttggaacgat ccaattaacc 120
caaaggattt caagtatgtt ttcttggcag caagcagctc actgaagggg caaagtgaca 180
aagagaagta tgagaagtcc agaaaattga agggtcatat acaaagaatt cgtgagaatt 240
atacaaaaaga tttcaaaaac aaagatgtga cgaggaggca aatagctgtg gcaacatacc 300

ttatcgataa actagccctt atggctggca atgaaa

336

<210> 50902
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E6

<400> 50902

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tcgaccatgg ctgccggcgg cgacgacacc accatcgcgc aggtccacag cggcatcgac 120
agcagcaaca agacgctgct caagaagcga ggccctctac 160

<210> 50903
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E7

<400> 50903

cgcctacctc tgcgggctgg gcatcgggga cgacggcgtg aaggagatag gtgggcgccg 60
cgtcgcttgc gccaaagtga aagccatcac cgaagcggag ctcaactacc cgtcgctggt 120
ggtgaaactt ctgtcccatc ccatcaccgt ccgccgcacc gtgaccaacg tcgggaaagc 180
caactcggtg tacaaggccg tgggtggacat tcccagggcc gtgtccgtgg tgggtcggcc 240
cccggtgctg cggttcgcca gggcgaacga aaagcagagc ttcaccgtga cgggtcgggtg 300
gaacggggccg ccggccgtcg ccggcgccga tgggaac 337

<210> 50904
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E8

<400> 50904

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ccacaccctc cataagaaca gttatttatc ctaacccaaa cataatccat aacactatca 120

ctacattact aactctaatac cacataaaaa caataactac atcattcaca ttacgaatct 180
 cattaacaaa ataacacaca cccacttcct tctacaaaac cacaacttac atccccacta 240
 attaaacact tattcttcta catcctatac taatatttta aacacccaaa aata 294

<210> 50905
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E9

<400> 50905

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 aggggtccacc agttgcatct gcagcatcaa agcgtaagaa aggtgataaa aataaaggga 120
 aatctgaaat gagctcaatt ggggagttat tgggtcatccc attcctgtca aagtttccta 180
 taccttctca tgggtgaggat gcatcatcag tagcagtgcga gaattatttc ggtgttttga 240
 tggcatatgg aggcctccaa gattttctga ctggaaagaa agatttgaca attacattga 300
 tcaggaaccg gatttctcca ttatattctt tggatccttg cagcatgcag cccatatttg 360
 atttcaacgg ctaattgggt tattgggtcag cttgcgatat g 401

<210> 50906
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D11

<400> 50906

tgagaagggg atgcaacaca accagaagat caccttcctt ggtgaagctg atgaagcgcc 60
 tgatactgtc actggagaca ttgtattcgt cctccagcag aaggatcact ccaaattcaa 120
 aagaaagggg gaagatctct tctatgagca caccttgtct ctgaccgaag cactatgtgg 180
 gttccaattt gttcttacac atctggacaa caggcagctt ctcatcaa atcagaccctgg 240
 tgaagttggt aaacctgacc aattcaaggc gattaatgat gaggggatgc caatttacca 300
 gaggcctttc atgaagggga agctgtacat ccatttcacg gtggagttcc ctgactcgtt 360
 ggcaccagag cagtgcaggg ctctcgagac agtact 396

<210> 50907
<211> 249
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-F3

<400> 50907

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tanaggagag ctgtctatca ttatattaaa gaacatgggt aggaaacttt acacacacat 120
ttggttacaa gatcaccctt gaagccaaag ataactaaac gaccttgact aacaggactt 180
tggttacttg tggattaga ctgttatctg gctgggtcat aatccatatt ctgacangat 240
ggattcatt 249

<210> 50908
<211> 72
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F5

<400> 50908

aaaaaacata caataatata ataacactta aaattactac aaaaaaaaaa aaaaaaaagc 60
caacggaaaa at 72

<210> 50909
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F6

<400> 50909

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agaccgtagc tagggtttga ggcgccgggc tgcggtggac gagatgtcga cgccggcgag 120
gaagcggctg atgcgggact tcaggcgcct gcagcaggac ccgccgccg ggatcagcgg 180
cgcgccgcac gacaacaaca tcattgtctg gaacgccgtc atattcgggc cggatgatac 240
gccgtgggac ggtggcacgt tcaagcttac ctgacgttt acagaagatt acccaaacia 300

gccaccaact gttcgatttg tctctaggat gtttcatcca aatatatatg ctgatggaag 360
catctgtttg gatatactac agaaccagtg gagtcctata tatga 405

<210> 50910
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-B1

<400> 50910

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ctgtcaatta tgtccctggc catactgact ccatttgcta tagctatgga aggccctcaa 120
atgtgggctg ctggttggca aaaggctctt gcagaagttg gacccaatgt tgtctggtgg 180
attgctgcac agagcgtggt ctaccactta tataaccagg tgtcctacat gtctctcgat 240
cagattttctc cattgacatt cagcattggc tataacaatga aacgtatatc acggattgtt 300
tcatcaattt atatct 316

<210> 50911
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B10

<400> 50911

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aggtggagaa ggtggtgggc tccgaccgag tgggtgactc cccctgctgc ctggtgaccg 120
gaggtacggt ttggaccgcc aacatggagc ggatcatgaa agcccaggcg ctgagggact 180
ccagcatgtc tggg 194

<210> 50912
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-B12

<400> 50912

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ttttaaattc ctgtcncca caagaatttt gttaatttta aaaaagacta gggctccaac 120

aancttaatn acttctctta attactatct atcaaagaat ttctctttaa ccgtcatctt 180

cacaaacctt atttaatttc atacaacaaa aaaaaaattt cctccctttt taaatttcca 240

atttatatta cccttccttc caacaacaaa accttttttt 280

<210> 50913

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B2

<400> 50913

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acatgtcctt cgatgaaaaa tttgtgaaga gcaaggaggt ggatgccttt gaaccatcct 120

catcaaggaa gagacctttc agcgacgtca accgaaaagg tgcaggtgct ttacctaatg 180

gcagtgttac agaccagcat gatgagtccg aggatagtga tcagaagata tgatgctctg 240

ctctctgctc taatttttag ctc 263

<210> 50914

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-B3

<400> 50914

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atttaaaaag ataacttaaa cccttgacaa actcttcttc cggctcaata aaatctacat 120

gattccacct cctccttctc tcaactggttc tcatctacat aaagatgaca tctccttcta 180

ttacaaattt gttaccacca atgaagtcaa ttccttttta ccacctcat ctattaacga 240

cctttcatcg acgtcaaccg aaaagggttca tttgctttac ctaatttcag tgctacatac 300

<210> 50915
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B6

<400> 50915

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 atcggaccag ataatatcaa ctagtggttt gccttagcct gcaattagct ttacttggtg 120
 gtccatcatca tcattcatat ttcatttcac taaaggaaat gataaggcag actgggattc 180
 ctgcaatctt tacggacttc tgtgaagaag ctgcacatct agcatcctgc tgcataagct 240
 ccataactgg tcaaccctt aaaattccaa tccaggtaaa tcctttcagg cagccagttg 300
 cagcggaaaa caatgcatta tacgtaccat gttattcaaa ttgctttggt tttgggatgt 360
 aaaattgccc tgtcaccagg aagtatatat agagattgat ttgtcaagaa atggaat 417

<210> 50916
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B8

<400> 50916

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 agtcctgatg atcattatgg tattcgcagt atggatctcc caaccagtct tctggtcatg 120
 aatctccgtc gggactgcat gccacaatac ctgctgtctcc catttggaaca gtttggtcga 180
 gctaaagata tatatcttcc aagaaattat tacacttgac tcatcacaat cctaaaagat 240
 tattgttgca gagaaggaag aaatagagaa attcaattaa atgatctgca acttaaaaga 300
 gttctcatta ctgctcaaga catgggaaaa aatatagtta caagtttaag agatactcac 360
 atcatgaaga gtttcaagtc tgaatttaaa ctct 394

<210> 50917
 <211> 375
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B9

<400> 50917

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ccgttccccca acctctcgtc tgctgcctgc ctgcctgcct gcctgcaaaa aggagtttgt 120
catggcgtct aagcgcattc tcaaggagct gaaggacctg cagaaggacc cccccacatc 180
atgcagtgcg agtctctgctg gtgaggacat gtttcattgg caagcaacaa ttatgggacc 240
acctgacagt ccctatgctg gtggtgtttt tttagtgaac attcatttcc cgccagatta 300
cccccttcaa cctccaaagg tttctttcaa gacaaaggtc ttccatccta atatcaacag 360
caatggaagt atatg 375

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<210> 50918

<211> 207

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-C1

<400> 50918

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gatcgattgt cctcaatagt ttcaacattc nagtaactgt tgcgggaggt gccatggaag 120
cattggaatt cttaaagtcg aacaacagtc atgttgacct tattttgact gactactgca 180
tgctgatata gactggctat gatttgc 207

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<210> 50919

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-C11

<400> 50919

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tctatggacg cgcgccggtg ggacgagtcg tcgtaccgcc gcggcatcct ccgtgccccg 120
gacctctcgt cccgcaccct cttccgtgcc gtcttctttg accacagcga cgaccgggat 180

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accgacatcc tactcgccgc cgctccagc gacggctccc tcgttcctt ctccctttca 240
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-A5

<400> 50920

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tatgctttca tagaggagaa acccttgaca agcgacggta ccaatctggg cgcttctaata 180
aagagatgag ataccagga ctggcgagc ctgaggtagc ttgggtagta atatggaaaag 240
catattgcta gcggtcgcac aagtttagtt tctttttttt cccttactga cact 294

<210> 50921
<211> 251
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-022-Q1-K1-C5

<400> 50921

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ccttgaggga ccggactaca tggctccgaa cgcaaggagg tccatgctgg angagctgga 180
ggggatgctg gagatcgtgg agcctcagcc gccggggaag ccgaggacgc ttagccgcag 240
gaggttcgat c 251

<210> 50922
<211> 361
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-C8

<400> 50922

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ataggaagaa gagagcagag gaggatggct cgtacgaagc agaccgcccg caagtccacg 120
ggaggcaagg cccccgcaa gcagctcgcc accaaggcgg cgaggaagtc ggcgccgacg 180
accggcggcg tgaagaagcc ccacaggtac aggcccggaa cctggtggcgt gcgcgagatc 240
cgcaagtacc agaagagcac ggagctgctg atccgcaagc tgcccttcca gcgcctgggtg 300
cgcgagatcg cgcattgactt caagacagac ctccggttcc agagccacgc cgtgctggcg 360
c 361
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<210> 50923

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-C9

<400> 50923

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tgagcagaat cgacgacgcc gtctacagga tccttcgtgt caagttcacc atgggtctgt 180
tcgagaaccc ttaccccgac tctagcctcg ccggcgagct cgggaagcaa gaacaccggg 240
aactggcgcg cgaagccgtc aggaaatccc ttgttctcct gaagaac 287
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<210> 50924

<211> 152

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D1

<400> 50924

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cagcgttctc gccgtgcgcc tggctctgtc agctgccatc tcctgtgcaa tgcatatacc 120
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ctgccccctgc gcggtgctca acggcttgta cg

152

<210> 50925

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 50925

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gggttccaag gccatcgagg atgaggactt cgtcgacgcc gtagactgtc tcagccgagc 180

gctcgagatc agggcttcac attatggaga gctcgcaccg gagtgtgcca gcacatactt 240

caaatatgga tgtgccctgc tatacaaagc tcangaggag agtgatgttt tgggaaatgt 300

tcccaagagc ttgccaaatg aagactcagt gaagagtaca gctactaaag atgacagtgg 360

aacctcaaag gtctctggta ccgatgncga ngatgctgcg tcattcagaaa aaagtgatgc 420

tg 422

<210> 50926

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H11

<400> 50926

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cgtgctcggc ggcacgttcc tgggcgccgc acaccacgcc ccacccgtca gcgacctgga 180

gacccgactg ttggcgaacc agaaccagac ccagaccag acgtgtcccg agttcaaccc 240

gaacgtccgc tggagctgca tggactgcct caaggccgcg tccacgtgcg gcttctgtgc 300

tcaccaggga gacaagcttc ttccgggggc gtgcttggcg ctgaacaacg cgtctcggca 360

tgcgtgccgc gcagaccacc gggagttcta cac 393

<210> 50927
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H2

<400> 50927

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tgggaagtgg gattgatggt gaagagcagc acggtgtccc ggaccaccgt ataacgtttc 180
gaagagcaag tctccacata ctttctgagg ccaaaatttc gattgtgatg cttaatatagat 240
ttgtgtccat ctgtactgat atttataact gatctagtta cagccgtata attatgaatc 300
atcttatcat acaccgatta tggcttcatg atgacctgac tgtgtctgaa attcctgagt 360
tggtatttct aacggaaac 379

<210> 50928
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H3

<400> 50928

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ggcatattcg ggtgggggca atcctggcta ccctggtggc agccctggct accaggggtca 120
aggaggcaac tccaacttcc agtgaacatg accacgagta ctaagttggc acccctgttt 180
cagagtagcc ttctgcaaga gatggtgcgc cgtagcctag cataaatcga acccttgttg 240
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actatgcttg gtgtctgagt gatgtacgtg gaattctgaa actatggatc agctcttggtg 360
tgcacttgct gaaccagata ccagcagta agcttttggt tgttcgtttt gagggttggtg 420
ttaaccacat acttgg 436

<210> 50929
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H4

<400> 50929

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tgctcagctt ggcgctctac aaccaacaca ggctacactg aacatgcagt acaggggcat 120
gcatccatcg atgcaaatga atcatggaat gggcatgtat tccaaccaa cggtcggagg 180
atattatgga atgaacaaa cacagcttta cggcgttcat atgtctggtt atggatatgg 240
tcagcaatct gggggctact atattccgaa tgctgcatat gcctatacta gtgcaaacga 300
acttgcccag aggatgaatg acctttcagt tcaaaacggg gatccaaatg gagccgcagc 360
aaataagcag agcagacctg aggatgcact ctttggtgat ctcttgagca 410

<210> 50930

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H5

<400> 50930

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aatcaggctg atgtcccga gatctaccgc ctcgcggcca aatgaaggg tgtcttcac 120
aaccctgctc tcgttgagcc gttcgggtctc accctgatcg aggctgcagc acacggactt 180
ccaatagtcg ctaccaagaa tgggtgggccg gtcgacatta caactgcact gagcaacgga 240
ctgctcgttg acccgcacga ccagaacgcc atcgctcaag cactgctgaa gctcgtagca 300
gataagaacc tgtggcagga atgccggaga aacgggctgc gaaacatcca cctttactca 360
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<210> 50931

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-H6

<400> 50931

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cgctgttttg ggaagcccag tggacaacac gacgtcgacg ctcaccgggt gtttgctgtt 180
tttgcgcagc cccatccgcg acgtcgttca cccccgaagg caagccgctc aacgctcgtc 240
gacgttcgga gctatgcaca aatcagaatc gccatcgatc ttacaaacgc cgattgagtt 300
tgtttatgga acgaaagagg atgatcgatc aagtgatgtg gtgccacca caagatgcag 360
tcggtggacg aaccaaggaa ggatggacat aacangtga tgctcgccaa gcgagtaccc 420
tcctt 425

<210> 50932
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-021-Q1-K1-H8
<400> 50932

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atggtttgtga acacttcttt tgcaacaaat caaatctgac caagcatgtc aaggcatgcc 180
atgaccagct gaaacctttc aagtgcggaa tcgttggatg tggcaaggcg ttcacctaca 240
agcatgtcag ggataaccat gagacatctg gtgctcatgt atacatggaa gtgagttgtg 300
ctacctgac tatgttaatt ccgagtttgc gattgttggc ctattaagtc aaactatcag 360
ctcctgattt tcgtacgtat ctctaattta aacgtatgtt cacatctgc 409

<210> 50933
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-022-Q1-K1-A10
<400> 50933

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ggtcgagcct gatggaaaca ggccaccacc tccaagcctc cggctacgtc aacgaggaat 180
gaagcatggg cgagtcagca tgcagcgctg gagaactgag atcgatgcag ttcaagcgta 240
cgtataaatt ctcgagtgtc tgatgtgggt catctgtcaa gggcaacaac agttaggttt 300
atatgtgtgc ctttgcattc ctcgacatct gtcactgccg tccggtacta tttgggggtca 360
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<210> 50934

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-A11

<400> 50934

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gtcaggacgt gagagtacta gtatttgtta gtgcatacca cttgtatcca tagtctgttg 180
ttgggtctct acatctcgca taaaagaaat actcctatgc tataggttat gccgatggag 240
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agtcataat ttgtaccgga acctagaag atctttgatt cgttgtcatc tgtaacattt 360
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<210> 50935

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-A12

<400> 50935

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ggtcagaaac tcaaacctac tgtccactt agtgaacacc aataccttat atagtgtatt 180
aggacattcc ctctcccaa atttcaaaaa ctctattatg ctattgaata cgaccttcac 240
gctgattata ccataactat tttcttagga aacaattaca acacctacac ttt 293

<210> 50936
 <211> 207
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-A2

 <400> 50936

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 tccccctgcta tggagatcgt gcagaacctt aaagcatacc cactggctga tgcgcagctg 180
 accatgggta tcctcaatgt catccat 207

<210> 50937
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-A3

 <400> 50937

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 atctttctgcc gcgccaacga gaactactgc ctggccgtcc gcgacggcgc cgtcgtgctg 180
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 cgggtcaagg acgaggaatg catgccggcg ttcgcgctcg tcaacaaggc cacggggctc 300
 gcaatcaagc actccctcgg ccagtcccaac ccggtcaagc tcgcgccttt cagccccggac 360
 catgatgacg cgtctgtgct gtggacggat agcaaggacg tgggcaaggg c 411

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 <211> 273
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-A4

 <400> 50938

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aatcttaata aaaaaaaagg gcaaccgcct ctcgttttca aagttccaat cttccttctt 180
ccgacatcca acgttttatc ttttttatcc taaaaccaat ttacaatcca ctgccctaca 240
ttttacaacc tggaaaatcc aaaaccttcc cat 273

<210> 50939

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G9

<400> 50939

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gcaaaagaaa taaggcagat agtccgtgat aaatttacgc accaattagc aatggagctc 120
atcaaggaat ggtaccttgc ttctcaagcc acaacaggaa gcaactggatg ggatgaccat 180
gatgcttttg ctgcctggaa ggacagtcct gaaaactaca aggggcatat ccaaaagctt 240
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gcattctcgc agggctcttc tacgctatta gataagatgg atccctctca gagagcgaag 360
tttgttcatg aagtcaaaga agtccttgat tgatgatacc aacacatcca acacaatgt 419

<210> 50940

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F4

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aaggcatgcc ggcgttcgcy ctcgtcaaca aggccacggg gctcgcaatc aagcactccc 180
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tgctgtggac ggagagcaag gacgtgggca agggcttccg ctgcatccgc atgggtcaaca 300

acaccc

306

<210> 50941
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F5

<400> 50941

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<210> 50942
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<210> 50943
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<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-F7
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 aactaagctt ttgactattc tgtcacaacc actccgatgc ataacacact ctttgactct 300
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 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-F8
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 cttaaagt 428

<210> 50945
 <211> 420
 <212> DNA
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 <400> 50945

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<210> 50946
 <211> 96
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-G11
 <400> 50946

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<210> 50947
 <211> 421
 <212> DNA
 <213> Zea mays
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 <400> 50947

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<210> 50948
 <211> 409
 <212> DNA
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 <223> Clone ID: LIB3079-021-Q1-K1-G2

 <400> 50948

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<210> 50949
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-G3

 <400> 50949

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gtacattgct gaagctagga aagggtctcg ttttggacat gacacacttg ttgatgccat 240
gcttaaggat ggactttggg atgtatacaa tgactgtgcc atgggaatgt gtgccgaact 300
ttgtgctgac aatcatgccc tcacaagaga agaccaggat gcttttgcta tccaaagcaa 360
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<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G4

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tgagcatttt cttgccctgc aacttggttt gaaaccagga atgaagggtt tagatgtggg 180
ctgtggaata ggtggaccac tgagagaaat tgcaagattt agtcaactt cagttaccgg 240
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tagtggaaca tgtgattttg tcaaggcgga cttcatgaag atgccgttcg atgacaacac 360
ttttgatgct gtttacgcca ttgaggcaac atgtcatgca cctgatccag ttggttgcta 420
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<210> 50951

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G5

<400> 50951

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tggtgtgagc cctgctacct tcttgatata accacagttg ttgccgttct accagcacgc 180
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ttcttatgag ttatagttca ataataaagt tttttgtctg atgtttgtgg cttcccagaa 360
ataagaaagt acatttctag attcttatgt gcttctagtc tccaaatgtg gttgatagtt 420
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<210> 50952

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G6

<400> 50952

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tgatttttagc cctgctacct tcttgataca accacagttg ttacctttat aacatcactc 180
ttaacctaac gctaccaccc tcatacaact gcaacaattg ctgccattca acctaaactta 240
ctttaaacia acaccagtat cagttctacc aacatcccat aattgaacat gccctcaatt 300
agaaatctta caagttatag ttcaataata aagttttttg acagatcctt gtagcttccc 360
acataataa cagtacattt ctagattggt 390

<210> 50953

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G7

<400> 50953

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ccgccgaatc cgccgctcct cgcactgcaa cagccccgga ccacggtgca tttgatccgt 180
cccggccgcc tacacgatgt ccaagtcggg agcgctggat cttgcttctg gcctcggagg 240
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ctatggaggg aaggaggaag caaggaagtc caactatact gatatgggta ataaatacta 360
tgatcttgcc actagcttct atgagtatgg ttggggtgaa tccttcact ttgctcacag 420
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<210> 50954

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-G8

<400> 50954

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 cttcaattaa ctctccaact ttattaaaat tgcaacattt gataacattc aaccaactaa 240
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<210> 50955
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-021-Q1-K1-F3

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 aggagctctt taatctgtgc tagcagcggg cccagagaat gcggcagatc tcgtcgtgc 180
 tgcagggcct ggcccgggtca ctctcgggtg ggagggacag ggacagggac agggaccgga 240
 aagggaaacgg cgcagggcgc cgcaagaccg ccgtgccggc ggtgctgcgg acgtcgggca 300
 ccctgtgggg cgacggctcg gacacgttcg ccgncgtctg ctgcgggcgc ggcgagaaag 360
 gcatcaacca ggactgctcc atcgtctggg 390

<210> 50956
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D9

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 ctatcttttc aaggggaatg gtaataagga gaatgagccg tttattagtg atgtaaccgg 180
 catcactgat tctgccattc tctcaggatt aaagaacgac atgcacacaaa tacagaggta 240

cagaacctgc aggaatcttt atctgatttc caatacgtat gttttgcata cactgaagcg 300
 cgcacagagg cagatgcagc actaatctag ccagtaaacc aagcacgcac actcacgcgc 360
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 gtat 424

<210> 50957
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-E1
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 ccaaccact tgctctggcg aacgtagttg caaaccagca acaacaacag ctacaacagt 180
 ttctgccaac gctcagtcaa ctagccatgg tgaaccctgc cgcctacgta caacaacaac 240
 aactgctttc atctagcccg ctgctgtgg gcaatgcacc tacatacctg caacaacaat 300
 tgttgcaaca gattgtacca gctctgac 328

<210> 50958
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 <212> DNA
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 <400> 50958

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 ttccatttta acacaaacat ctactccttt gattcctaata accatcttct aatatcaata 180
 tactttctcaa tcacatatac tatatcctca cattttcata attttcaata acttattcta 240
 tcaagcatcc aatccattct atattaatta aaatctgtcc tctgtaaaca tgtcaacttc 300
 ctatctttcc acattctcaa tcaatctaaa tcattaccta ttcattctct 349

<210> 50959
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-E2

 <400> 50959

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 gaagcagctg atgatccaag tagcagagct agttcccaag catcacggaa ggacaaagaa 180
 gcaggagcca gcgccaatc ccggtggcag ttcaaagaac acaaaaggcg ggaaaaagaa 240
 aaagtgatgc agtatcattg tggtgttttt tattctgttc gtcatcatat actaagcttc 300
 tgtgaaaaag aaaaagtctt ggacgttggt gtt 333

<210> 50960
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-021-Q1-K1-E3

 <400> 50960

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 tgctgggtcg gcgggtgctt cagctccgac atcctcaagg ccatggaggt cgccgtgacg 180
 gacggcgctc acgtgctctc gctctccctt ggcgggcgca cggcggagta ctaccgcgac 240
 agcatcgcgg tgggcgcttt cagcgccatg gagaagggga tcttcgtgtc ctgctccgcg 300
 ggcaatgccg gcccgggcgc cgcgacgtg tccaacggcg cgccgtggat caccaccgtg 360
 ggcgcgggga ccatcgaccg cgacttcccc gnctacgtca cgctcggcaa cggcaagaac 420
 tac 423

<210> 50961
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E5

<400> 50961

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gggcaagaca tgggataagc tccagctcgc ggcgaggggtt attgttgcca ttgagaaccc 180
acaagacatc atcgtccagt cggcccgccc ctacggccag cgtgctgtcc tcaagttcgc 240
gcagtacact ggcgcccattg ccatcgctgg gaggcacacc cctggtacct tcaccaatca 300
gtccagacc tctttcagcg agcctcgctt gctcatcctt actgacccaa ggactgacca 360
tcagccaatc aaggagtctg ctctggggaa ca 392

<210> 50962

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E6

<400> 50962

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gatgaggagc tttacaaagt tacagggtgat ggtgaagaca aatatctcat agctacatca 180
gagcagcctt tatgtgctta tcaattaggt gatagaatat accctgctga acttccaatc 240
aaatatgctg ggtactccac atgcttccgg aaggaagctg gttcgcattg aagggacaca 300
gctggtatct tcagagtcca ccagtttgaa aaaatcgaac aattctgcat tacaagccca 360
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<210> 50963

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E7

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cctgcatgga cgaataagag ataggatgca tgtgcggaat gcgaccatgt ctgaatgaca 120
gatgaggatg ctgacgaagc tgctactgat acctaagcca atgggtgttct aaatgaatct 180
gatcagcctt tatgaacgta tgacttacga gatagatgag acatggcaaa gcaccgaacc 240
aaacatacct ggtgctcctc atacaaccgg aatgtacctt tgtcgtatgg aaaggacaca 300
gctgctatcc tcagagacca acagtttgaa gaaatcgaac actgctgcat tacaagccca 360
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<210> 50964

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E8

<400> 50964

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gctgtggctg ccagacacca ccgtttcacc taccgcctcc gttctatatg ccgcctccgt 180
tctatctgcc gccgcagcag cagccgcagc catggcaata cccactcaa ccaccgcagc 240
taagcccgctg ccagcagttc ggatcctgcg gcgtcagcag cgtcggcagc ccgttcctgg 300
gccagtgcgt cgagttcctg aggcaccagt gcagcccggc ggcgacgccc tacggctcga 360
cacagtgccg ggcgctgcag cagcagtgtc gccaccagat caggcagggtg 410

<210> 50965

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-F1

<400> 50965

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cttgtggatg attctctgac ttgtatgtca gaggcattgc ctatgattga acatcttatt 180
ctgtcatcat gcctatccat tggcatcgat ggattgtcct cattgcattg ccttcataag 240

ctgaccttgc ttgacctgtc ttataccttt ttggacaact tgaagcctgt tttcaacagt 300
 tgtctgcagt tgaaagtgtt aaaactttca gcttgcaagt acctcagtga ctcatcatta 360
 gatgccctct acagagaggg tgctc 385

<210> 50966
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-F11
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 gactggcgac gactccgcca ccgcgcgcgc tctacgcgag acgcccaggt cttcgccaac 120
 gacgagcatc cgggttagag aggaagaaat tgcaaccgaa acaatggcgg cagattccgg 180
 cgctcgcaga caaccaagct tcaccaaggt cgaccagctg cgccctggaa cccacggcca 240
 caacctcatc ctcaaggttg ttgactccaa gatggctgctc cagagaggcc gcgagggagg 300
 gccccaggga agacagatga ggattgcgga gtgcttggtt ggtgatgaaa ccggcatcat 360
 tgtcttcact gcaagaaacg atcaagtgga t 391

<210> 50967
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-021-Q1-K1-F2
 <400> 50967

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 gtggtcgctt cagaaggaaa tcatcatccg acgcatatga gagggcaacc cctccaggga 180
 cgaccagcca cctcctccc ttggaagtgt gaaccggctg caccctcaca cttgttttgc 240
 tccttgacaa gcatctcttc acctataata aggttagaggc agggaggaga gaagacgaca 300
 tcaagagggg aacggggatg agttgcgggt ttacctctgc tgtgatatat tggaagtgcc 360
 actatgggta ttggtcccc ctatctacta 390

<210> 50968
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D8

<400> 50968

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attctatgcg ctccgtctcc ttgaatcaac tggaattggt gtggttcctg gatctggatt   180
tggccaagtt cctggaacat ggcacgtcag atgcacgatc ctgccgcagg aagataaaat   240
ccccgcggtg atcacccgct tcaaggcttt ccatgaggcg ttcattggctg agtaccgtga   300
ctgaactgtt acagtggctg agtaccaccg tgtagaccga aacagaataa agtccccccc   360
tctctctgtg tctgtgctg tgtgtgaact gatctctgaa tggacgaaca atgtactctg   420
ttggcgctt taatggcaat                                     440
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<210> 50969
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C11

<400> 50969

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acatttgggg ctaccacaat aataattatt atgatcacca caataattcc tattttcacc   180
acattaatta ttaagttgat caccacatta tatacttctt atagcacatt gaaggcatct   240
tgtataatat caagtacaat atcacgctct aacactgcta ctagttcttc taccaca     297
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<210> 50970
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C12

<400> 50970

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gatcttctgc cgcgccaacg agaactactg cctggccgtc cgcgacggcg ccgtcgtgct 180

ggccccggtc aacccaagg acgaccacca gcaactggtag aaggacatgc gcttcagcac 240

ccgggtcaag gacgaggaag gcatgccggc gttcgcgtc gtcaacaagg ccacggggct 300

cgcaatcaag cactccctcg gccagtcca cccgggtcaag ctgcgcctt tc 352

<210> 50971

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-C2

<400> 50971

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ggaaatgata agcgccgacg cgataaagca ggagctgttc aagaacgctg gctatggcgg 180

aggctgcttg tagaggggca tgtcatcatg gcatgggagg aagaagaaga agaggcagca 240

atgaattaat cttaagcagc tgtgggagca gcagtcgtag tatcagttca ggtccagtag 300

cggaaaaagc aggcagggca aagatttggg aagccttttt gcaatccatc ntccccatca 360

taaccactt cgatctatcc attgtagcag tacgtgtccg tacgtcctat agcatcatgc 420

aggatgc 427

<210> 50972

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<212> DNA

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atcacctccg atgccatctc tcttgcaatt gctgactcca gcatgttcat gattgggtcgt 180
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gtatgactac ttggcatgga agttccatcc agactatgaa gtcttctttg cttgctcaat 300
aatactgtca aagaacaagt tgactacata catgcatcat atttctgttt gcatatgatg 360
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<210> 50973

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C7

<400> 50973

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atcacctect ttgccatctc tcttgcaatt gctgcctcca gcatgttcat gattgggtcgt 180
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aatactgtca aagaacaagt tgactacatt cttgcatcat atttatgtga atatgtgttg 360
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<210> 50974

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C8

<400> 50974

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cgagcgtctt acaacaacca attaaccaat tgcaacaaca atccttggca catctaacca 240
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tgggtgaaccc tgtcgcctac ttgcaacagc aggtgcttgc atccaaccca cttgctctgg 360
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<210> 50975
 <211> 188
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-D10
 <400> 50975

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 tatgaaca 188

<210> 50976
 <211> 397
 <212> DNA
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 <223> Clone ID: LIB3079-021-Q1-K1-D12
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 gcggatgcca tcccgttcag ctacagccag ctgcacacca tcctgaggat gtttcggatc 240
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<210> 50977
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D2

<400> 50977

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cctctaagct gtctgatatg ctatgcctaa tcttgagaag tggccggacg aaatatgact 180
tctgaacttt tgggttaaaa ctgacacatg ttgatactgt tcaaagctgt tgtatgttca 240
agtatagtac aaaaaaatgc tgaccatgag gctgtcattg caagaattca gatcagcata 300
aaaaattgct agtagcattc aatatgtaac aaaaacatgt gagaacccat acgagaac 358

<210> 50978

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D3

<400> 50978

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tgagcggatc gagatggcgg cgtcggatgt tgagtaccgc tgcttcgtcg gcggcctcgc 120
ctggggccaag gacgaccact ccctccacaa cgccttcagc acctacggcg aggtcctcga 180
gtccaagatc atcctcgatc gggagacgca gaggtcccgc ggcttcggct tcgtcacctt 240
ctccacggag gaggcgatgc ggaacgccat cgagggcatg aacggcaagg agctggacgg 300
ccgcaacatc accgtcaacg aggccagtc ccggggcggc cgtggaagcg gcggcggtgg 360
gtacggtggt 370

<210> 50979

<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-D5

<400> 50979

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tcctccgctc ctcgctctcc ctgcgctcc gccgtttcta cccactcgcc ggcaccatca 120
ggccccacgc gcccttcttc tgctectaca cccatggtag cgatgccttc accatggtag 180
tcgccgagtc gaacagcccc gacgatttcg acagcctcgt agccagggtca cgcagggacc 240
tggacaggat ccgccccctc gttccgcagt tgccgccgcc gggggaagac ggagcggttcg 300
cgctcgccgc cgtgcaggcc actgtcttcc gaggccgtgg cctctgcctc ggcgctctccg 360
tccaccacgc tgcctgcgac gatgcctnca ccatgcattt cgt 403

<210> 50980

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C10

<400> 50980

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gcattcatca gaactctgag gcttcacagc atcttggcgc acgaccagca ccagcaggcg 120
gcaacaaatg acacagcacc gatggcggttc gttccgggtg gcgtgcagtg cggtagcgcg 180
agcaaccctg gccggtgcat ggtggtcggg ccgacgctgg ggttcctcgc gttcgtggtg 240
gccggagtc tgcagtggcc gatggggggc gacgtgtacc tgttccgtca ccgcatggga 300
ctacgcatca tggcgcaccc ggctgcgctc gtgtgcccg gcgttaccag ggccattccg 360
atctaata 367

<210> 50981

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-D6

<400> 50981

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ctgggtctgc tccactccgc cctttacccc actcgccgca ccatcaggcc ccacgcgccc 120
ttcctctgct cctacaccca tgtaccgata cctaccatgg tcgtcgccga gtcgaacagc 180
cccgcagatt tcgacagcct cgtagccagc tcacgcaagg acctgtacag gatccgcccc 240

ctcgtttccgc agttgccgcc gccggtggaa gacggagcgt tcgcgctcgc cgccgtgcag 300
gccactgtct tccgaagccg tggcctctgc ctcagcgtct ccgtccacca cgctgcctgc 360
gac 363

<210> 50982
<211> 356
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-021-Q1-K1-A3
<400> 50982

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gaagaaaaaa aaaaaaaaaa aaaaaaaaaa acatacaa atagtatatc cattcttact 120
ttcccatcct ttctatcccc ttacactctt ctttaatat cacctaaatt taacttacct 180
aactcaat ttcataccca cattttttcc aaaaccctc tggttaacca ctttattccc 240
ctccctta atcctttttt cacaacctct tttaacagcg aacagtcctt tccaaaaacc 300
ctttcccaac tggttcttcc acctattcgc caactttaac tccccatttg cccgcc 356

<210> 50983
<211> 296
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-021-Q1-K1-A4
<400> 50983

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cgccgagtc gacgggctcg gccgcttcgc cgtcgatgag cacaacaggc gcgagaacgc 120
gctgctggag ttcgtgcgcg tgggtggagg caaggagcag gtggtggccg gcacgctgca 180
ccacctcacg ctcgaggccg tcgaggccgg gaggaagaag ctctacgagg ccaaggtctg 240
ggtcaagcca tggctcgact tcaaggagct ccaggaattc agccacaagg gggacg 296

<210> 50984
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A5

<400> 50984

acttcgtctt aattcccggc tggacgccac tcctccgcag cactctgctc ctaacgctgg 60
ttctctctta caactgcaac aattgctgct attcgacctt ctgctttga caaaccatt 120
atcattctac caacaacca tcattgattg tgccctcttt tacatctctt atcatttata 180
aatcattact aaaccaacc ttactcatct ttgagaatat ccacatatta caaactacat 240
ttataacaaa taatccttta cctatcacc ttcccaac 278

<210> 50985

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A6

<400> 50985

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ttgcacttaa tgttctatat atagtactca aaactatgct tgggtgtctga gtgatgtacg 120
tggaattctg aaactatgga tcagctcttg tgtgcacttg ctgaaccaga taccagcag 180
taagcttttg tatgttcgtt ttgagtgggt ggtaaccac atacttgta c 231

<210> 50986

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A8

<400> 50986

cccacgcgtc cgtgcaactc cagtgctgct cactgccact gccagcagat cgagctggtc 60
cgtctcacia accctcttgc tttgctgctg cacctgcaag tctgcaaccg cgcacacaga 120
gatgtcgacg acggtgagcc gtgcgtccct cgaccagaag ctgcacctcg ccaagcgttg 180
ctcccgagag gcgacctcg ccggagccaa ggcggcagcg gtggcgacta tcgcctccgc 240
gatccccacc ctggccagcg tgcggatgct gccatgggcc aaggccaaca tcaacccac 300
cggccaggcg ctcatcgtct ccacggtggc tgggatggcc tacttcatcg ccgccgaaa 360

gaagatcctg tcgctggcga ggcgccactc gttcgc

395

<210> 50987

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A9

<400> 50987

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gagggcaggc cggaggcgcc tgatgctgat cagcctgggc ggaatcgctc tgtggctcgc 120
cgtgctcggc ggcacgttcc tgggcgccgc acaccacgcc ccacccgtca gcgacctgga 180
gacccgactg ttggcgaacc agaaccagac ccagaccag acgtgtcccg agttcaaccc 240
gaacgtccgc tggagctgca tggactgcct caaggccgcg tacacgtgcg gcttctgtgc 300
tcaccaggga gacaagcttc ttccgggggc gtgcttggcg ctgaacaacg cgtctcggca 360
tgctgcccgc gcagaccacc gggagttcta cacggaaggg tgccccaaca ac 412

<210> 50988

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B10

<400> 50988

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tgcttgcatg gttegtcttg gtagctcttt gtgcaagcgc cactagtgcg acgcatattc 120
cagggcactt gccaccagtc atgccattgg gtacatgaa cccatgcatg cagtactgca 180
tgatgcaaca ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt 240
tggccttacc gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaactga 300
tgtcaccatt gatgatgccg agcatgatgt caccaatggt cttgccgagc atgatgtccc 360

<210> 50989

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B2

<400> 50989

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cgctgtctcc atgtacgaa gccggcgggt gcatcgggaa acccaagaag tcaccgccgc 180
cgccgagaag gccatacctc tcgtcctatt ccgaggacca ccagaactgc cgcttgatct 240
gtagctcgaa gggtttcaag gacgggtgggt ggtgtgacga aagcgtcgag cacaaagtgt 300
gctgctgctc ccattagaaa tataatatcg tatgggtatgt tgatgcatat atatgcatca 360
tccatctacc tgtgtggtgc aaaattctga ataaaactac ctgtgtggtg cat 413

<210> 50990

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B3

<400> 50990

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agaaagatgt ttgactaaag gtgtcaattt ggagggtgtaa ctgtacgtta atactaaacg 120
cgatgccatt gcaatttcag ttttattttg aaatacatgg ggttttagtg gcaaaaaaaaa 180
aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaata 240
aaaaaaaaag aagacaatta aagacatcca atattaacga caaaagccat gagaacaaaa 300
aagtaataat ggtggcctcc taaatgtaat tacctttcct atgttgaaca atatata 357

<210> 50991

<211> 249

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-021-Q1-K1-B4

<400> 50991

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gagattatgt agtactgtat gtgcacagat tgatggagta cacaaactaa gctcgtatcg 120

ctagagaatc atggtactat gaataggcat ttggatcagc gtgttttagtt ctagtaagat 180
aataccactt ctcaattaat gcaattccag cctcccaatg ttttgtcaaa aaaaaaaaaat 240
nnttaatat 249

<210> 50992
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-021-Q1-K1-B5
<400> 50992

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ctcatatagc aacagttggc acagcaatgt cgtccccaga aaaagcagct tgggaaatct 120
tcaattcttt agatgtcaaa tatgtgcttg ttgtctttgg aggacttggt ggatacccta 180
gcgatgatat caataagttc ctttgatggg tacgaatagg aggtggtgtg ttccctcaca 240
ttaaggagcc agattatctt agggatggc aatatcgctg tgatgctcaa gccactccaa 300
ctatgctgaa ttgcctcatg tacaagcttt gttactacag gtttgtggag actgatggaa 360
aaggctttga cagagtaaga ggatatgaaa taagaaagaa gcatttcaag ctaacacat 419

<210> 50993
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-021-Q1-K1-B6
<400> 50993

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aattgacagt tgatgtcaaa gcaaactcag aatcagatct tttgacagca atcactgtcg 120
atgagtttgg tactccaggg ctaaaatcaa ttatcaatgt ggttgttgca gaccagagtt 180
caggaagct tgaattccag tacctacatg aatatgctgg tgtgaatgca agcgtcggac 240
ttaattccaa cctatggtt aacctttctg gtgcctttgg aagcgaagca ctatcagtc 300
aggttgatgg ctgatttgat accgcgacta gcgattttaa caatgaca 348

<210> 50994
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-B8

 <400> 50994

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 ccggccgccc caacttctcc acaccggagg agatcgctgc tgggtacttca ggtcgccctc 120
 gcacctttta gaagaaggag gaagaggaag aggaggaaga agaaagagaa gagtcagagg 180
 aggaagaatc tgaagacgag tctgatgaca aacctaaaca taaagggtact gaggggtatta 240
 ttcagattga aaatccgaac ttagtaaaag tgaagaatat aaaggccaag gaagttgatc 300
 ttggaaagac aactgaactc tcaaggcgtg aaaggaggga gcttgagaaa caaaaagctc 360
 atgaacgtta tatgaaactt caggagcaag gaaaaacaga ac 402

<210> 50995
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-B9

 <400> 50995

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 ccagggcact tgccaccagt catgccattg ggtaccatga acccatgcat gcagtactgc 180
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 ttggccttac cgcttcagac gatgccagt atgatgccac agatgatgac gcctaacatg 300
 atgtcaccat tgatgatgcc gagcatgatg tcaccaatgg tcttgccgag catgatgtcg 360
 caaatgatga tgccacaatg tcaact 385

<210> 50996
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-C1

<400> 50996

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gaaaaatcag ctcaaaggac aatcattcaa actgtcgaac catgatTTTT aaagacttgc 120
tgtggagacc gaaggggtatt ctggaagtga cctgagagcc ttgtgtgaag aagctgcaat 180
gatgccaaata agagagctcg gtccacaaaa tattcttact atcaaagcaa atcagctgcg 240
acctttgagg tacgaggact tcaagaacgc gatgacgggtg atcaggccaa gcttgcagaa 300
gagcaaattgg gacgagctgg agaactggaa cgaggaattc ggttcgagct gacggagacg 360
cgcgctgtct gatgatgatg atc 383

<210> 50997

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G9

<400> 50997

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cgctggcttt atgcaagtgg acgtcacccc cctgctgata ttgatatggg tggatgggtg 120
actagcgaca actatgatat cacctccgag cttccttttg gatttcaatg gtgtcccttt 180
agtggattca cccagctagc atcaatgtta ggggtgcgtg aagctgagcc aacttaccac 240
acaactggag atcactcaag tgctgcaagc agttcacttg tttgcccata tcttgccttg 300
cgtggttttc tccatcctgt taatgtgcct tctacttcta attctggtgc tgaaagcact 360
tcatttcacg ggcactcaac tggcttggaa ggacatgtca ctctgattt gaacaatgct 420

<210> 50998

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H1

<400> 50998

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ggaggtcaga taggcgcggt acaaccaaca caggctacac tgaacatgca gtacaggggc 120

atgcatccat cgatgcaaat gaatcatgga atgggcatgt attcccaacc aacgttcgga 180
ggatattatg gaatgaacca aacacagctt tacggcggtc atatgtctgg ttatggatat 240
ggtcagcaat ctgggggcta ctatattccg aatgctgcat atgcctatac tagtgcaaac 300
gaacttgccc agaagatgaa tgacctttca gttcaaaacg gtgatccaaa tggagccgca 360
gcaaataagc agagcagacc tgacgatgca c 391

<210> 50999

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H11

<400> 50999

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gagaagtcac ttctaaagtc atggcagact cgcagcaaaa tagtctcaca agagccttgc 120
acaatcaagg aaggacacaa ttgacagttc gataccatga taacagtgat gtgaagacta 180
ctcaggatct taccgtgtgg tcttcaggaa ctgagcaaca gagaaacaat attgctgccc 240
agacaaagct atgtctggag ggttgacgc caactagaag tctgaaggc tacaatcaga 300
tattctcggc atttaaacca ctgaaagata tacataaccc acttggtcct tttcctagtc 360
aaatatctgg gactcactca aatagctggg acacagctga tgctc 405

<210> 51000

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H12

<400> 51000

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caaagaagaa tttgttagtg aatatatata cccctgcctg cgtgcagggtg cagtttatga 120
aagaaagtat ctgcttgga cttcgatggc taggcctgtt attgctaagg caatggtcga 180
tggtgccaaag gaagttgggtg cggatgcagt tgcccatggt tgcaactggaa aaggcaatga 240
tcaggttcgc tttgagctta cattctatgc tttaaactct gaacttaaag tgggtggcacc 300

ttggagggag tgggatatca caggacgtga agatgctatt gaatatgcta agaatacataa 360
tgtacctgtt acagtttcaa agagatcaat atacagtcca 400

<210> 51001
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-020-Q1-K1-H2

<400> 51001

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catgttgctg gtgtctcaac tgctgcaagt tttggtgggc ggttcttatt tgagcccatc 120
ctggtcggta ttggagcttg tacagaacaa caccgaagtg catgatattc ttgactgaat 180
aaaattaatt gacgacactt gttttacgta agggaaagat gaggataatt tggagacata 240
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tggcatgagt cgtgtcaacc tcagctcagc tgaaagggct caagttcgtg ccacaacaca 360
actggaagag ctgcngccgt ggccaaagga ggaaatgcca aacaacagca aca 413

<210> 51002
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H4

<400> 51002

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gcggcgcggg cgaggagcag accagcacc cagcagccctc gtcggggggc gggagttgta 120
gcttgatgag gcgtcgctt tgccgctgtg ctgtgactgt gactctgccg ctaacccggt 180
tgcatttctc catcttatcc ctctcccgct tctgcttctt cgtctcttac ttcgttctga 240
tcccgtggc gaggatgcat tcgcatttgc ggcactcaat gtagccctac cagaaggtgg 300
tgaagatcgt ggacgtcact gtcagtgtgg tgtacaatgt gc 342

<210> 51003

<211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H6

 <400> 51003

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 gcctgtcctg tgtctgtttg tacgttgaca atttgattcc gttgctcaag gatagaagaa 180
 tattgataca ggagacccga ggactggttt gttttttgca aaaaaaaaaa ttacaaataa 240
 taaaactaaa atacaataaa aata 264

<210> 51004
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H7

 <400> 51004

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 ctgaggatgg aaccgatcct cccaaaaagc ccacatcagt agctgagggtg gcaaagcagc 180
 gtgagcttag tggcactctt caaagcgaga cggatagtaa gacgaagaag cagatctcaa 240
 atgcaaagtc caaggagctc agcggccacg acatctttgc tgatactctg gattccaggt 300
 ctaacagggc aaggaaccca tcgaacggca gcacagcctc acacgcacct gccaaaaata 360
 caaacgccag caccttctcg tttggagatg ccaacactga cagcacgc 408

<210> 51005
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-H8

 <400> 51005

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acactcacta atgagaagga gactgacgct tgcccaatca gagcaatgaa gttctccgct 120
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gaaggcttga agcgtctagc aaagtccgat cctatgggtc tatgtacaat ggaagaatct 240
ggtgagcata tcattgctgg agctggcgag cttcatcttg agatctgcct gaaggatctg 300
caggaggact tcatgggtgg tgctcaaatt atcgttttca ctgcgctcgg ctacttacgc 360
gaaacggatc ttgagaagtc ctgacgtact gtcatgagca agtctcccaa 410

<210> 51006

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H9

<400> 51006

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aggaggacgt ggtgctgccc aaaacataat tccagctcc actggtgcag caaaggctgt 120
tggaagagtc ctgcctgagc tgaatggaaa actcactggc atggccttcc gagttccaac 180
accaaagtgc tctgttgtgg atttgacatg ccgattgag aaaagcgcct cctatgatga 240
tgtgaaagca gccatcaaga cggcatcaga ggggtgcactc aaaggtattc ttggctacac 300
agacgaggat gttgtttcca atgattttgt tgggtgattca aggtcaagca tctttgatgc 360
caaggctggt attggactga gctctttctt catgaacttg tgtctggtat gac 413

<210> 51007

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A1

<400> 51007

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gattcctgaa aagttcagtt gatctagttt tctctgcaaa gaacatgtgc atacctgttt 180
caggctaaca agttctttcg tcttcttttg taggttctcc ttgagctggc ccgtagccgg 240

aacagaatgc cgctgcccac atcaatcgct cctcctggct cgattcccct cccacctgag 300
caggacacac tggtggccca gaactaccaa ctctgcctc cgttgaagcc gccacctcaa 360
tatgaggaaa tagaggatga gactgaag 388

<210> 51008
<211> 405
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-020-Q1-K1-F3
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ggccccgttc cagcagtaca ccgacctgct ggcaaagccc accaagggcc ttgtgctcga 180
ggccccaact gagacagtag aggcttagga tggtttgagt ggagagctct actcgtcggg 240
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ctgttttgct ctggatgctg ntctgtactg tcaagttttg gattatgcta tggcactttt 360
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<210> 51009
<211> 440
<212> DNA
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caaagaaata aattccgtgg tgattttcga tctcatgaat gacaaatggt ataaataatt 360
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440

<210> 51010

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51010

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tccgcggagt tctggctcga cgagttcacc acggacggcg acgtccgcag agactacgac 180

cgttctggcc ggcaggtggc gtcgcttgct ctcgaccagc gttctggcgc tggcttcaac 240

tccacgcgca agtacctctt cggcgagttc agcgtggaga tgaagctcgt cggcggcaac 300

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gagttcat 368

<210> 51011

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F6

<400> 51011

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aactacgcac acttctggct agacaagttc accaccgcac ggatacaacc acatagacta 180

ccaccgttct gacctacaag tgactatctc ttgccctctt accacaactt ctgacactgg 240

ctaaaactcc acgtcaagt acctattcgg ctagttcaac atccacatta agcctcttcg 300

cggcatactc catagggact gtccacctct tctac 335

<210> 51012

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F7

<400> 51012

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cctccgcgga gttctggctc gacgagttca ccacggacgg caacgtccgc agagactacg   180
accgtttctgg ccggcagggtg gcgtcgcttg tctctgacca gcgttctggc gctggcttca   240
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<210> 51013

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-F8

<400> 51013

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gttttgttgg tacgcgcgcy cgcagatagt gggcacggcc cgtggctacc gtcttgggaa   180
gaagaagcac ggcgggcgcy gcggttaaca gaagagggcy tcgccggcgc cggcgcttaa   240
ggacgtgcgg tctgactcgg aggactcgtg caccagcacc agcggcgcca gcagcgacaa   300
gagcagcgtc gtgcagagct ccccttcgnc gncgacctct gccagccacc gnccccccg   360
gaacaagcgc cgaaagggca tcccgcacgg tcgcccttgg gcagcctcat cgtcgagctc   420
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<211> 403

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-F9

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tgggctcggt gctcggcctt gttgagctag agatcctcca acacagcggc accgacacca 180
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ggaaaagcat tgtggatggg attcattctt ttctatgggt cacctcggtc tggatgata 300
tgaaatggta catcagataa gtgggaagag gaagtataat gcaatggata atcataaaaa 360
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<210> 51015

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G10

<400> 51015

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ttgcgagaag tgagcaccct gaaggggagg atggagtcag tggatgaagca gaagggctctg 180
gacatcgaga ccatccagca gtcctacacc gtgtgactgg ctgaccgacg acgacggggt 240
ttatagaggt ttctttctct tatactatac aatctgtact aggtagcaat aaggatcaag 300
gaaggaaccc ctatatattg gctgtgggtc gcgggaaatg aatgatggtc atatttatga 360
tgtcgggtgtg gtgcttctgt cgccaactct cgaccatact accctcaac 409

<210> 51016

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G11

<400> 51016

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tgggaacatt gtaactggag atgatcagca aactcagtgt atcattgata atcaagctct 180
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 ctggacgatt tcaaatatta ctgctggaaa caaagatcag atacaggctg tcataagtgc 300
 tgggtattatc gtccttttgt tgcaactgct tcaaggagca gagtttgata tcaagaaaga 360
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<210> 51017

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G2

<400> 51017

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 gacggaaggg agttcaacat atggaggcct ctctgcccta atgagtatgc ctcaaagtgt 180
 gatattgcgc atgttggcat ccatccaccg tattgtgctg ctgtatacaa gaatatcaat 240
 gggaactttg cactgcctct tggctatgac ctggtttggg gaaattgtgc tgaggattac 300
 aagagccctg tatcaatatg gcttccaagg ccaccggggg gatacgtagc tcttgggtgt 360
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<210> 51018

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G3

<400> 51018

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 tgaccttaaa ccagagaaca tattgcttgt gtctaccatt gatcccacaa aggaccctcg 180
 gaaatcaggc gtacccttag ttccgccttc aatgaggaca gacgagccac ctctaagggt 240
 gcctgcacaa tcaggaaatg gtggcctcac caagaaccag aagaagaaga tccggaagaa 300

agctaaacgt gcagttgctg caacttcaga aggaagtagt gctgtggcat ctgcggacac 360
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<210> 51019
 <211> 432
 <212> DNA
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<223> Clone ID: LIB3079-020-Q1-K1-G4

<400> 51019

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 caagacctac ccgcagcagg ctggcaccgt ccgtaagaac ggcttcatcg tcatcaagaa 180
 ccgtccctgc aaggttgtgg aggtttctac ctccaagact ggtaagcatg gccacgccaa 240
 atgccacttt gtcgccatag acatattcaa tgggaaaaag cttgaagata ttgctccttc 300
 atcacacaac tgtgacattc cgcattgtgaa ccgtactgag tatcagctga ttgatatttc 360
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<210> 51020
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-020-Q1-K1-G6

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 tctttgtgct cattccatgg tatcttggag cttttgtgct gatttgtgtc cgagtacgtg 180
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 cagcagtcgg gttaatgtaa atgtccgttg ctcggctact ttgttacctg tgttgtagat 360
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<210> 51021
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G7

<400> 51021

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gtgaacacct tcttcctctt ctgcgggtgc gtggaccagg ccagcgtggc ggtggtggag 180
aagtggggcc gcttcctccg cctcgccgac ccgggcctcc acttcttcaa cccctcgc 240
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accaagacca aggataatgt cttcgtccaa ctgatctgca caatccagta ccgtgttgc 360
aaggaaaatg catatgatgc tttctatg 388

<210> 51022
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F11

<400> 51022

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cttacttgca aattaactct ttctgaactc tacatccatc tatagacca cacatacacc 180
aagtctcaca actcttagcc ctgctattag aacatacaat acttcttata cccattaata 240
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gatattgatc attccatcat ttg 323

<210> 51023
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D5

<400> 51023

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tatactgaac aaggtgaagg aaaaaagtga tgacgaaggt aaaccattgc ccgctgaatt 180
tgatggaaaa gaaaaccggg tggcaaactc aaaaaatgac aagtctgatt ctgggtgtcga 240
ccggagtcga gaaagagaga gatcaagagg gcgggaacgt gatgccaggg gtagggattc 300
tgatcgtgat agcaggggtc gcgagtctga tcgtgagagg gaccggagac gctgctctag 360
ggaaagaagt tcaggacact cagac 385

<210> 51024

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D6

<400> 51024

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agaatccctc aaacgcctcc tgaagatgag aagagcatcc aaggacgcag aaataatcct 180
cctttgaggc gtgggtccct gggtccagta gatgccact gttctttcct ggtgaagcga 240
tttggctctgc tgtgttatag gttctattca actaggcgtt tgggcacaac ttcgtctgaa 300
caaaagttgt gtcttcgcgt atacctgtgt ttcagtgtgt caccttcagc aaagctaaat 360
gttgcacccg agtc 374

<210> 51025

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D7

<400> 51025

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cccgtttgct gctttttcaa agaaggaaaa ggatcagcgt tataaggaac ttggtttaag 180
 agacaaaatc acacttagta gtggccgttt tgtccttggt aacaaatagc cacggacgtt 240
 tatattcttc tacagcatcg gattgcatct ccttgtatct acattactgt acagaatgtc 300
 agctttgagc tatctcaaca caacaactca gcaggatgaa atcattctgg atgctggtaa 360
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<210> 51026
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D8

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 cgtgctcgca ctcggcgga tgtccttcta cacctacctg ggtctgaaga aagaccccg 360
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<210> 51027
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E1

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 cgtgtgctgt gtcggcgggt gcttcagctc cgacatactc aaggccatgg aggtcgacgt 180
 gacggacggc gtcaacgtgc tctcgctctc ccttgctggc ggctcggagg agtactaccg 240

tgacagtatc gcagtgggcg ctatcagcgc catggagaac gggatcttca tgctctgctc 300
cgcggggcaat gccggcccgg gcgcccgcac gctgt 335

<210> 51028
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E10

<400> 51028

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gcgagctgga gccggaggcc aaggcgctcc ttgaagcggc gctgacggaa gccaacaggg 180
agagggagga gaagatcctc aggggcacca agcactctcc gcatactccc acctgggacc 240
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<210> 51029
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E12

<400> 51029

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cgccaaaagc tgcaggaaca gcaacaggcc attgagctcc agagccgaca cctcatgggt 180
cttcagcttc tcgaccttaa tgctcagcgc tgatgctgca gcagcatcgc cactgccgac 240
accaattgtc tataccttcc aatccagcct acctgtgagc accaccgag tctagtcgcc 300
atcgacgtca ggtcctggc agcagctgct aaagctgagg agcggatttg ctctggatgt 360
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<210> 51030
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-E2

 <400> 51030

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 cctggccgcc gccgatggcc tcttctccgc ctagctagct agctagccta gctgcttcca 240
 ggcccttctc ctgagtgagc agagcactga gcagcagtag tcgagttctt ctggaccata 300
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 gcgcctctgc ttgattggtt tctccct 387

<210> 51031
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-E4

 <400> 51031

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 cctatagctt ccttcttcc ccatacctt ccatcaatta tagcttcaat atgtgaaaac 180
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 agggcacaac agctgcagca actcgtgcta cctctgatca accaagtagc tctggcaaac 360
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<210> 51032
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-E7

<400> 51032

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caaccagcca agtttcttga gtcagaagga tatcgacgaa gcgagtgagg cggataggct 180
ggcaaacagg ccaccactgc caacgggtgc cagctctcgc gtggtgaggt ctttcgatca 240
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tacagaacct acttactatc gttctgagct ctggtgcttg ggcagcttcg ccacgcaacg 360
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<210> 51033

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-E8

<400> 51033

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attccgttgc cctgtacgcg gtgcaatgct ataagtgcta caaatggagt acggttccaa 180
aagaagaatt tgagacgctt cgtgaaaact tactaagga tccatggttc tgcagcagac 240
gaccagacag ctcttgtgaa gacgatgctg acattgagta cgacagcagc cgcatttggg 300
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<210> 51034

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E9

<400> 51034

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gatgtgcaac tactacacgg tgaggcagga tggctccaca gcattcatga ggtcttgggc 180
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 gcccttcga ttcttcaggg tcgccctgac aggccctgcc gtcggctgta cgtggaacct 360
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<210> 51035

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F1

<400> 51035

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 ctccgacaaa agcgatgatt cgggtgaagg tttgaggga ctgactgtac agcagaggaa 240
 cattgccaac ttgcaagtgg agctacaggg aagaaaggat gatgaaaaca ttgctcattt 300
 gactcatgtg agtgagattg aaaagaagtg cgagtctttg gccagaatga ctgcaatatt 360
 gaaagatgtc attcataaca cggatcgt 388

<210> 51036

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-F10

<400> 51036

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 ggaattaccc tgaatggaag ctctacatcc agactattga tcttgaccat gaggataagt 120
 tagactttga cccgctcgat gtcaccaaga cctggcctga ggatatcatc ccgctgcagc 180
 ccgttggacg gatggctctg aacaagaacg tcgacaactt ctttgcagag aatgaacaga 240
 ttgctttctg cccagcgatt attgttctg gaattcacta ttctgatgat aagctgctcc 300

agacgagaat cttatcctat gctgataccc agaggcaccg ccttggtoca aactatctga 360
tgcttactgt gaatgcacca aaatgtgccc accacaataa ccaccatgat gggttcatg 419

<210> 51037
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D4

<400> 51037

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agaatcagga actggagagg aaacaggcag aaattatgga aatgcagaac aacgaggtat 120
cagaaatgtt gaaggatcca ttcggacgga agaaacggct gtgcttgcca agaacgttga 180
cggccccctg gtgacgattg cctagaacag cacatgactt gcacttgcta cgtacctgca 240
ggggcgtttg ggatctgtag ataatttctc tcctatagtg tagcgatgaa cccatgaaca 300
tgaacataat ctaaagattg gtactgttag ctcccttctg ccgcttacgt agtactggag 360
taccgtattg gtggagtcga aaactgacat gtaaattatg tacgtagtag agaacaaaat 420
g 421

<210> 51038
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B8

<400> 51038

cccacgcgtc cgcacacagc agcctttttg ttctccccgc gagcgctctc tttgtctggc 60
gactggcgac gactccgcca ccgcccgcgc tctacgcgag acgcccaggt cttcgccaac 120
gacgagcatc cgggttagag aggaagaaat tgcaaccgaa acaatggcgg cagattccgg 180
cgctcgaga caaccaagct tcaccaaggt cgaccagctg cgccctggaa cccacggcca 240
caacctcatc ctcaaggttg ttgactccaa gatggctgctc cagagaggcc gcgagggagg 300
gccccaggga agacagatga ggattgcgga gtgcttggtt ggtgatgaaa ccggcatcat 360
tgtcttcact gcaagaaacg atcaagtgga tgtaattagg cctggaacaa c 411

<210> 51039
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B9

<400> 51039

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ttcagaactt tggagaacct ttttttatgg ttattcgtga ggatgagacc ctatcttcta 120
tcaaagaacg tatacagaaa aagcttaagg ttccagatga ggatttctca aagtgggaagt 180
ttgcatacat ttcactcggc cgtcctgact attttgaaga ttcagatact gtagccctaa 240
aattccagag aaacatgtat ggagcttggg agcagtatct tggactggaa catccggaca 300
cggctcctag gaaggcacac acggctaatac agaaccggca ttcattcgag agacctgtaa 360
aaatttataa ctaggcatgt tagaaattga gcgatgagct 400

<210> 51040
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C1

<400> 51040

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agaacatatt tgtttgtgga ttcagtcaag gaggtgctct gacattagct agcgttttgc 120
tttatccgaa gaagttaggt ggaggagcag tgttcagtgg gtgggtgcct ttcagttcat 180
cagtcactga gaggatttca cctgaagcga ggaagacccc gtttctttgg tcacatggaa 240
tggtctgaaa agtagtattg tttgaagctg gccaggctgg tccaccgttt ttgcaaagcg 300
ctggtgttaa ctgtgagttc aaggcatatc cagatctggg tcattcgc 348

<210> 51041
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C11

<400> 51041

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gagcagtcgc catgtctggc atcatccaca agatcgagga gaagctccac atggggggcg 120
accacaagaa taaggaagaa gagcaccaca agaaggccga agagcaccac aagaagaag 180
aaggggagca ccacaagaag gaccgccggg agcacaagga aagcatcgtg gagaagatca 240
aggaccagat caccggcgag caccgcgaca agttcggcga ccaccaggaa aagaagaca 300
agaaaaagaa gaagcacggc gagggccacg accacgacgg cggccacagt agcagcagca 360
gcgacagcga ctgagatctg gtgtcgcagc acaagtgcaa cacatgtatt cttgctggat 420

<210> 51042

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C12

<400> 51042

agcacaaggt ggaggttatt gccgtcttcc ttttgcgtga gcaaagaaag agagcgggga 60
gagcactcgc catgtctggc atcatccaca agatcgagga gaagctccac atggggggcg 120
accacaagaa taaggaggag gagcaccaca agaaggccga ggagcaccac aagaaggagg 180
agggggagca ccacaagaag gacggcggag agcacaagga aggcacgtg gagaagatca 240
aggacaagat caccggcgag caccgcgaca agtccggcga ccacaaggaa aagaaggaca 300
agaaaaagaa gaagcacggc gagggccacg accacgacgg cggccacagt agcagcagca 360
gcgacagcga ctgagatctg gtgtcgcaac acatgtgcaa cacatgtatg cttgc 415

<210> 51043

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C2

<400> 51043

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aggacatatt tgtttgtgga ttcagtcaag gaagcgtctt gacattaact agcgttttgc 120

tttatccgaa gaacttaggt ggacgagcag tgttactggt gtgggtgcct ttcagttcat 180
 cagtcaactga caggatttca cctgaagcga agaacacccc ctatctttcg tcacatcgaa 240
 tggctgacca agtagtattg tttgaagctc gccatactgg tccaccaatt ttgcaaagcg 300
 ctgggtgttaa ctgtaacttc aaggcatatc cagatctggg tcattcgctt tccccaaaag 360
 agctacttta tcttg 375

<210> 51044
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C3

<400> 51044

gcagttccaa ggatcacttc tgaacgaaag cagaagatca aaagttggag tgcatacggg 60
 tggacctggt atggctctca cagaccttct gttaagtggg tcatcgctca gaaataaaca 120
 gatgttcaat ttaatatgtg aacttccaga aacagtagcc agaactttgg ttccaaggat 180
 gagagttgta aaaggaagtg gaaaggcaat caactactta acaccaccaa ggatcttgct 240
 tgctctggtt actgcatggg ttcgacgggg tcgatgggtt gacgacgagg gaagagcggg 300
 gtatgcagct gaagctgata gaattcgcaa ctgggctgaa agtcgagcac gcttctcgct 360
 caccga 366

<210> 51045
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C4

<400> 51045

gtgagcagac ggattaccgg cgatccctgc gtcggtcgcc ctcatacttg ctcgtagcgt 60
 gcgttctctt ctctgtccaa caatcaatat tagccatggc ggcagcgctc gtaggtgtca 120
 aagttctctg ggttacctct ttggaagcgg agagccctcc aaacacatca gtggcaccag 180
 ctgatagtgc tccacctgct gctgcagggt ctccacttgc tgagaaacca cctgctgcaa 240
 agcctgatgg caccagtcag attgctgctg gggctaccag ctcaaccaat tactaccaca 300

gggcctacag ttagaacacc ggaaactttc ttacggaccg tacttcgacc aagggtccacg 360
 ctgatcctgg ccgtggctat ttcctggg 388

<210> 51046
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C7

<400> 51046

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 gaaagcaagc ttggcaccga gttgcttcgt gctattgaca aggctggata tgaaaaacca 120
 tcaccaatcc agatggctgc cattccgtag gtctacaaca acctgaaggt aatgggattg 180
 gttaaaccag gttttgaaaa aactgcagcc ttggaactcc caaggtggcc taacattacc 240
 caattg 246

<210> 51047
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C8

<400> 51047

ccgatgacta agatcctcgg tggggattct agaagacaga gaactctgct actgtgggag 60
 tgagctcaag ggatcaatgg attctttacg cacattggcc taggttgaga ctgaccatgg 120
 atcaacagtt gcttgagact tcagtaactt tgctacactg aggcagcttg ctattgacaa 180
 ggttcaaccg gtggtgatat ctttgaaact tgggtactctc atccagtatc tcagtgggtc 240
 ttcactgcgc atgctttcag tcggtgaaga atcatgtgaa tacttcagga cgatggagtc 300
 tatgtgcgcg tccgatctaa ctgatctgat agc 333

<210> 51048
 <211> 385
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-D1

<400> 51048

nccacgcgtc cgaaactttt tcttggcaat ggatggcaga aagccgttgc atgggatgtg 60
ctgaaaatct ataatgactt cattgacagt caagaaagac gcaggatcga acggttagaa 120
ctgtttgatg agtttgaaga gtggtatatg atgcaggaac actactgtgt ggcctatgga 180
atcaacgacg ccgagggcat atttgacagt tttggatttg gggagacata gcagcactgg 240
tgccttttct tctgtgggta ccagctgcac ttgttgtaaa ccgacaccat taattcaagt 300
attactcgaa gtaaactttg cttgattaaa gaaggaacga ttgcttgata aaagaaggaa 360
cggacagggg taggatacct aaaca 385

<210> 51049

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D10

<400> 51049

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cggcgcgcgc aaggggtacg gcggcggcgg cggcggcggc agctgcaccg tcgactgcaa 120
gggtcaagtgc acggcctact gttgattcga ctcgctccgt gctggcgcgt agcggtttgg 180
cagtgggcgg tgctagtggc tggcgggtggc ggcctgctag ctgctgttgg tgtgatggcg 240
cgtgtgcgtg tcggtgagct gagtaccggg tggttaactt gtgttatcat cccaatagt 300
atactagcgt acttctcggt ctggggacta tttatacgta gaccacgata tgcgtagggg 360
cggtttattt ctaagataag aatataagat gctc 394

<210> 51050

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D12

<400> 51050

gcagagataa aagctgcccg aactgctctt ttgcaatcca aagtcaatca gaaggtgggtg 60

caaatggtgc caaaaagtac attggtgttc ctgggcaaag gccagataag gagacgaata 120
 aaaatccaac tgaaccccc ataccactta gagtcaagaa gcgtgggtcc aggaagaaat 180
 ggaacaagag gaaattcagg aggatggctg accgaattgt tgatgctgga aaggatgcag 240
 aggggcttgg aacgcttcta catgatgact atgaggaagc tagaagaata ggatatgagt 300
 tacctacaga tactgctatg gttcaattta acaaggaagt tgtaatgaca caacctgggtg 360
 aaggagatag gatagtacaa ttggagccac ccagagat 398

<210> 51051
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-020-Q1-K1-D2

<400> 51051
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 gacactggtt tcgtgtttga acctggttct gtgcttgtgg agtttttgcg ggaggaggct 120
 gcttgcatgg ccgcacattc cttacatggg cgtcgcttcg ggaacagaac tgtgcatgct 180
 ggatatgctc cgtatgatct ctacttgag aaatacccca ggtgattctg cgtttgcgac 240
 tgcagtgagt gcgatacgag ctttgacctat gtgccagtat ttcacagaaa cttcagactt 300
 gtagttttgg cttttgagcc tttggatggg tcttccggtc cagatagtgg taccaftagt 360
 tgaacgaaat atttgaaaat gttgntccac agtagatatc gga 403

<210> 51052
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-D3

<400> 51052
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 cgacggtgac agcggccggg gcctcggcgg tgtccctgac ctgctggtg gcgggggcca 120
 tggggcgagc tgcgccacgc gacgggtggg gcagtcgccg tgccacacgg aggaagtcga 180
 gcccggccga tttgtccgca agtgcgagaa gacggagcag ctccctccgc actgcgtcgg 240

caggccctct gaactggtgg aatccaaaac tgaaaacact gaagaagatg tcacagaaga 300
aatgaagagc gggttacttt ctcttgggtt tccaagaaac gagcccttcg cattccctgg 360
actccgcagt gacatg 376

<210> 51053

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B7

<400> 51053

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aagatcttgc taccctagcg cattcccaag gaatcataat cgaggaaatc gacatgaaca 120
ttgacaattg tgcagcagtg accaacgagg caaagacaga ggtcgacaaa gcacacaaga 180
ctcatcacatc gaattcgtcc ctgacatgct tgcttatggt catattcggc gtcttgctgc 240
tcgctgtgat tatagatctg gcagcttgag acatgcaacc tcctctctta cagagctatt 300
ccgcggaatt cacaattgga gattgctcgc agttcttatt taaccatcac atccagtgcc 360
acaatag 367

<210> 51054

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A2

<400> 51054

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tggtttactt caagccgctg ttcattgtta agaaaagaag attcacaag ctgaagatgt 120
tcttagccag tacgctgaga agcgtcctga gaattctaaa gggctcctcc ttgcacttgc 180
ccagattgct gctaattgcca accattttca gcttgctgct gactcactat ccagaatacc 240
tgacattcag cacatgcctg caacagttgc tacattagt ggccttaaag agcgcctagg 300
tgactccaat gctgcagctt ctgtacttga ttctgctatc aactgggtgga agaattccat 360
gaccgaggat aacaaattag atatattaac acgggaggct gctgcattta agctcagcca 420

tggacgtgat ga

432

<210> 51055

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A3

<400> 51055

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aggcagggtg aagaccctgt gttttgttaa tgacaataac aggaatgctg ctattaacct 120
gaatctgcct ccagagagct atagttcaaa cacaaccaac ttaattgatg tgaacattga 180
gcctgctgac tcagccctta gtgcacatgc taagcgcaca aaggagtcc atttctgttc 240
aactgatttt cctgaaccca gtaagtctgt gccttttacg ttggccacta cctctttgtc 300
tgcagcagct gctacaaacc aaactggtga tgttcccatg 340

<210> 51056

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-020-Q1-K1-A4

<400> 51056

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gggtccccaa tgatcgagat aagtgtctctt actggggata atgttgatga acttctggaa 120
actgtcatgc ttgttgcaaa gttggaagaa ttaaaggcaa atccacatag gaatgccaag 180
ggcactgtta ttgaagcatg ccttgacaag gccaaaaggc ctcttgctac cttagttggt 240
cagaatggaa ccctaaacaa agctgatatt attgtgtgtg gtgaagctta tggaaagatc 300
cgtgcattgt atgatgactg tgggaagctc gttgacaaag cangaccatt caatgcagtg 360
catgttattg gcctcaataa cgttcccctt gccggtgatg 400

<210> 51057

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A5

<400> 51057

aacccacgcg tccaccact cttccgttca actcctatgc ttatcactgc cactaccacc 60
agatcgagct agtccttctc acaaaccgc atgctttact gatacaccta caaatcttca 120
tcttaacaca catatatctc cactacatct aatcctcaca cacatccacc attaattctca 180
tacctaacac ataaccctct tcacttatcc catacttcac atactcaacg cacaaacgaa 240
ttccactatc gtctaactga tcctcaccat ccccataata ctgatccttt cactttccac 300
actcaatatt a 311

<210> 51058

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A6

<400> 51058

ttttatctca aaaaataaaa aaatcattaa aaaaaaaaaa acaaaaaaaaaa aaaaagaaag 60
aaaaacttaa aaccgagaag aacatattaa aaaaaaaaaa ctctctaac ataccattc 120
ttccttacca ctacactcaa aatcattccc cttattttta aaaacttctc cttacactta 180
ccccattgt tcctaacccc accattttta accccactgc ttactcocta tccaa 235

<210> 51059

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A7

<400> 51059

aaaaatctta aaaaaaaaaa aaataaatta aaaaaataaa aaaaaataaa aaatggtagc 60
aaaataaaaa agggctgcgg gcatttaaaa ttacaacaac gattgctaag aacaacatta 120
ccattgctcc actgttctat actcatttac acatgtcaat tcctcttcac aatctataca 180
cactctttat aaaaaactta tatcatacac aaaccttaat ttttactctc gctactcttc 240

cgtaccaaca tccaatctca ctcgatataa atccctttca ctatgacct

289

<210> 51060

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A8

<400> 51060

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ggcgtcggtc tttccagcgc tgcgtctggc cgtagcggcg gtgcttctcc taccggtggc 120
agaggccgtg tggctcgagc tcccgccgtc ggggaccaag tgcgtctccg aggagatcca 180
gcccacgctc gtagtgctcg ccgactacgc tatcatgtac gagtcccacc ccagctcgca 240
tcccaccgtc gccgtcaagg ttacatcacc ctatggcaat actgtgcatc ataataaaaa 300
tgctacaacg ggccagtttg cattcaccac ttcagaagct ggaaactacc ttgcatgttt 360
ctggatagac agcgtggaga aaggatcatg aacatctcta aatcttga 408

<210> 51061

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A9

<400> 51061

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ttaaggcttg gattgccaca catcctccac cactgcatca gaaaccagag acatctgcta 120
gaggtactgt gtggagggcg aagggttcgt cgagcggcac aaccccagtg gagaatcctg 180
ttgctaaagc aggatctgac gtgcagcacg ctgccgaccg ccctgggttc agcttcagaa 240
acttcaggtt tgacaccgca agcatcctgc aggccatgga ggcttccttc ctacgcacct 300
agaatcctga cgaagcatca acacctgcac cc 332

<210> 51062

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B1

<400> 51062

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ggcatctgct tgagctgctt ctacacccaaa ttggcctgcg cgtaaaggag ggatagaagc 120
agtggaaccg gagcctctat gattttttat gcatatcggg cgtgcatggg tgaattctgc 180
tacctgactg ttaacctgga accgggaccc tctttgcatt ttgttcatgg gttcgaaggg 240
aatgtgaaaa aaaataacac aaaaaaaaaa ccttaaacaa taacc 285

<210> 51063

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B10

<400> 51063

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aactccttcc tgtttaatgt tgggctcata ctactttgct ccatcagtgt gattcagttc 120
tgtgccacgg cttttgcta ctacgcacaa gcaactgcag ctcaagagat atttggccac 180
actttgcaat cccttcgtgg aattaagtat ctttacaagt acaatgtttt ccagtatggc 240
tttgttgctc ttgccatcct cactctcttc tactatgcta tatttggaag gagaaagagg 300
aaaccaacag gaagattcca gctctcaaat tgatttgctc tgtaagtga gtttgacgga 360
ttcatcatal gtgccccctg agtggttagt cagttagcat cttaaaaatg tata 414

<210> 51064

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B11

<400> 51064

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taccaccatc accgtccagg tcaagttcgc cgggaggacg atccccgtgg aggtcccggc 120
agcggcttcc ggcgcggagc tgaagcgct cctacagccg ctgaccaatg tctcccgcg 180

eggccagagg ctcatctgca aaggcaaagt gctccaggat gccgcaagcc tgagctcgat 240
 gcaagtagtg ggcggatcca aggcgatgct catcgcgctg caagggctcc atcacgggga 300
 tggctctatc acaagtcac gcatgagctc agcaacaact gtgagaaggc cttcaaatgt 360
 taaggagaat c 371

<210> 51065
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-B12
 <400> 51065

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 agcaagctgg tgcccgtgtc attgtgaccg agatcgaccc catctgtgcc ctccaggctc 120
 tgatggaggg tcttcaggct cttcccttgg aggacgttgt ctctgaagct gacatcttcg 180
 tgaccaccac tggcaacaag gatatcatca tggttgacca catgaggaag atgaagaaca 240
 atgccattgt ctgcaacatt ggccactttg acaatgaaat tgatatgctc ggccttgaga 300
 cctaccctgg cgtcaagcgc atcaccatca agccccagac tgaccgctgg gtgttccccg 360
 agaccaacac tggcatcatt gtccttgctg 390

<210> 51066
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 <213> Zea mays
 <223> Clone ID: LIB3079-020-Q1-K1-B2
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 gtagcgtcct tgtgaatgat aactttggga tgctgtcaaa acccatggac aacatgaaag 240
 tgatagaagg gtatctaatt gatgagatgg aggccatgag gattctagag gagcaaccaa 300
 atatgctgaa tgtcattcat aagaaaaaga ggcattggagt gaagttttgg accacagacg 360

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380

<210> 51067

<211> 397

<212> DNA

<213> Zea mays

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<400> 51067

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tagtgtagat aattttctct atgcaaagc aattggtaga gaccgcattt attctatgat 120

ggtatttttt agtaccaaca atggacaagg accccatcga aatggtagag agcacagtgt 180

gagtgatcca gggaagcctt gatattcattc gcagcctggg cactaatggg gttgtgaatg 240

taaccacact cagtctatct attcccttaa gaccacattg tttcaaataa tagatgtgtg 300

tgacatgctt gacaagtgtg tcgtctccat gatttttttg ctaaagctaa gagggaagaa 360

gttattcaag cttaagatac atccaccaca acagatg 397

<210> 51068

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G11

<400> 51068

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gctgaaaagt cacatgaaga tcacgcagag catgatcatg aacaccatga gcatgagaat 120

gaacacgacc atgaccatca tcaccatcat gatcatgatc atggtaagcc ttgatgttgg 180

aacattatta tggcatgagc tgactgacgt ggtagtatca aactcctgat tctctatgat 240

cagtagcact cacttgtacc accaattagg aatgatgtg ca 282

<210> 51069

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G2

<400> 51069

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ataactgtaa acgtatataa taaatgcagt cattgtcaca ttatgcttgt gaagtcctca 180
taggaaagga taactcttga ataaaatgct ctggaaagta cctgcctaca atctggactt 240
gcgaacaatc gaataaatgg tgacaatgag gctaattgtc ttacgttgta cttgatgaac 300
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<210> 51070

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G4

<400> 51070

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ttctaattctc atcaacaaat acaacaccct aatcatcatc taccaaca 168

<210> 51071

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G5

<400> 51071

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accgcgggga gccaggcgcg cgatcgagcg agcggaggga ggaggaggat gatgcacgcc 180
aagtccgagt cggacgtgac gagcctggcg gcgtcttcgc ctccgcggtc gccgaagcgt 240
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gagtgc 366

<210> 51072
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-G9

 <400> 51072

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 caccgctacc aagcatccat catcaacagc tacgatccta gactcgactc caactcctac 180
 tctgagctcg acaccatata ataccgctcc tacatcgccc tcggctccta ccacttggtg 240
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<210> 51073
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-H1

 <400> 51073

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 ctacgacgcg gagaagctgt gcggcgtgaa gcgcgaggac gtgaggggag gcgtggggcc 180
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 ggtgttcaag cccgcccgcg gcagcgacaa gcccgtggtg ctcatgtgca ccgaccctac 300
 caagtcgtcc ctgaaccga acctgtaccg nccgacattt gcaggatttg tcgacacgga 360
 catctcgaac ggcaagatat ccttgagaag cctgatcgac cggtcggtcg ttgagagctt 420
 cggagccggg gc 432

<210> 51074
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-H11

<400> 51074

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ttggacctgg ccattacac atgggtatga atgtaattac aaggggctaa ccccaaaacc 180
ctaaatggga ttctaacaaa gttgtttttt ccgttgggtg taatcatata agtattagca 240
tttcagttga attttctact ctcaaata ttgaatgaac tggtttaca ttctagtatg 300
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<210> 51075

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H12

<400> 51075

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tgagccactg gggaactgtg ggaagaaggc cctactgtgg tggcttcgtg ttgaagcacg 180
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cgcaaagcgc actccatggc ctgaaaccac ccccgagctt ccatccgagt tattggatga 300
caagcaaaag ctggaggata ggcaattgtc aagaggcaac aaatcgtctc agccccgagg 360
caccacgaaa cggaaggggc accctcaagg gcaagataac tgatggagaa cgcactggca 420
ttgtaatgta tatctcttgc accctgc 447

<210> 51076

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H4

<400> 51076

cccacgcgtc cgaaaaaaaa aaaaaattat taaaaaaaaa aaaaaaaaaa acaaaaa 57

<210> 51077
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-H5

 <400> 51077

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cctcggccgc cccggcgctc gcctcggccg ccccggcgctc cgccaaggctc gccgatcgca 180
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tcgaggatat cgacgcgtgc tccgccgagt ggcaggctca catcgcgag gagtggctcg 360
acaagctgcc gncaccgtcc tacgaggagc ggtacgtgct cacgcgcgcg ttcaggaacc 420
gcgagc 426
  
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<210> 51078
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-H6

 <400> 51078

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ggtgcaaggc caactctgag gctaccctcg gcacctaaa gggatgatgct gccgccgaca 180
ccgagagcct ccacgtcaag gactacaagt actgagttgc ttctctttgc gtgcccgttt 240
tggaactcct gcctacgagc taggttgccg agtggtggtt gctcgttaga gcttattttc 300
ggacatccaa aaaacatgct tcctatgtgg gatgatgggt atctttatat ttgtatgtta 360
attagtctct ttgctgttaa atttcgtgta agttggctct gccgatggag aatcgagcag 420
ctcccttttt tgg 433
  
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<210> 51079
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-H8

 <400> 51079

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 acaacagctt cggcagcaca ccagtgctt atggaggctt ctacggtgct cctccccctc 180
 cgtatggcat gccctacggg ggagctgcac cccctggttt ccaggcgccc gcaccagcat 240
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 actccttcaa cactatgacg ctcaatccac cgaacgctac ttccgagtgg tatgccgact 360
 ccggtgcagg atcacacatg acctcggacg ctggatttgc aaaccatgaa cgtgatcg 418

<210> 51080
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-G1

 <400> 51080

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 ccagctgctc aggatcgagg aagagctcgg tgatgccgcg gtctacgccg gagcaaagtt 180
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 cgtgtttgct cgagagctac tcaggtgatt ttgtcgtggg agcaccaaaa gcagaaaaga 360
 actgtttttt tcttctctct ctctagattc tgacgagtgg tggctctgcac tcgtcgtaat 420
 gtcg 424

<210> 51081
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A1

<400> 51081

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ccacctcagc ctcgaggccg tcgaggccgg gaggaagaag ctctacgagg ccaaggtctg 240
ggtcaagcca tggctcgact tcaaggagct ccaggaattc agccacaagg gggacgccac 300
cgacttcacc aacgccgacc tcggcgccaa gcaagggtga catgaacctg gttggcgtg 359

<210> 51082

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A10

<400> 51082

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gcgtcgttct acgtgaaggt gaagccgcag aagagcatgt gggttggctt actgaaggtg 120
gtggttggtg ctgtcaagaa ccgtgacctt gtgctgccag aggcagatca tggcgctcag 180
ttccattggt taccgggttc gacacagacg gttccatcaa aaaaaatc 228

<210> 51083

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-A11

<400> 51083

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gctagagggt ctgtctggaa agaaacggga ccttctactg gcacacgcac atcatagaac 180
tcagttgctt tagctacctc tgacgtacaa cacgctgcc a tccgacatga tcgcagctct 240
gaacacttca tgcgtgacac cg 262

<210> 51084
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-E5

 <400> 51084

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 tgcttccgca tcagcttcaa agggggcccat gggacctgtg ttttagcagtt taatgtatga 180
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 gactgatgac atagtgaagc ttctggcagc tgggtgttgg gtcaacgtga gagataccga 300
 aggtagaagt ccgttgcact gggctgttga tcgtggccat cttagtgtctg tcgaggttct 360
 tgcaaatgca aatgcagatc tgaatgctaa ggacaatg 398

<210> 51085
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-E8

 <400> 51085

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 tatcaaagtt tcgcaatagg ccattccctc ttttttacag tttagaaggg ctatatgaag 180
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 atttgatggg acaagaaacc acaagtgtgt tcaatctatc ttgtgatgct caatctgtcc 360
 gagtcaatac taatgaacct actgaagctc aatttgtccc atctaataa gaatcaagcc 420
 agagagaa 428

<210> 51086
 <211> 418

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-E9

<400> 51086

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 ccgacaagga gctcggcgct ctcgccgact gggagatcaa gttccaggcc aagtaccccc 360
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<210> 51087
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-F1

<400> 51087

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 attttatgga tattgctcga gaggagctta caaagaaacc agaagaaata tccgctgaaa 360
 aacttcagtc tctgcttgac attgctttac ggagtactgc agctgcttca 410

<210> 51088
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-F10

<400> 51088
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 cctgatgggc gaacatttgc taccggcaac caagacaaga catgccgaat ctgggacgtg 180
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<210> 51089
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-F2

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 accatgaaag ggcagccaag aggcagcgag gcagtggtag tgaattctta gattctgagg 180
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<210> 51090
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F3

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 tcacggccca tgcattgagc acaaggactg tgccaactcg tgcgttcaac ataacctcgg 180
 tgtcggcggg tattgcaggg gcaagatccc attcaacaaa gaatgcatgt gtacatttga 240
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gggatgtcgt ttggcatgtc ctccattttg aaagtgtcca agtgagactt tatacatata 360
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<210> 51091
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-F4

<400> 51091

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 gatcgacatg cagaagatag ccaaagtcgc caacaagtca cacaaggacc gcatgcagga 240
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 ctaacatggc caatctagct gtgttacgca cgaacaattg tatgctgagt ggggtctatct 360
 agttntctat tagcatttta tatatcgttt tacagttgtt gtaaaacgac 410

<210> 51092
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F5

<400> 51092

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 gctgtgtgtg tgcgtatttg ctgtggattt gagtgtgttg cttccctccc ttactctagt 180
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 gataggggtt gagtgaacc ctcgctcgtt gggacgccac aacgtgtagt atgcaagttt 360
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433

<210> 51093

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F6

<400> 51093

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tagaccgaca ataaatcgga agcagctgtc ttgttgatcg aggagcgcgg aatctgcaaa 180

ctggcccttc agtgttttgg atgtgctgcg gaaacgtgtt atgatgtgta tataaaaaac 240

gtagcatgtg ctgcatgaac tcctgtagga tgtctaacta ctgaagtgca gattcagcct 300

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<210> 51094

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F7

<400> 51094

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ataagatcaa agctgttatt cacagcaaag ggggttcttt caagggtcca agtactgagg 180

gtagttcaat gagcgcaaag caattttgat ggcgctttag atactatggc acgtacacct 240

gctgatcctg aagaagaact tacatggatg tctcaagaag ttcgtgggtta tgtcgaggct 300

gttctgaata gtctggcagc aaatgctcca aatgctattg tgctttgtca agtggagaaa 360

gcaaataag acatgcttaa ccagctatac agc 393

<210> 51095

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-E4

<400> 51095

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agaaaatctt gaaagatgag aaggaactgg cgactcggca gcaggagggtg cttgatggaa 180

actgcaagaa gtacgacatg ctggaagctc tagtgcagaa gggagacatc actaaccttg 240

ctcaacaata cggagtgaac ttgaacgact gatgagtcac tcgtgtcttt tcccccttc 300

cccttgagc gatggcgcaa ctggtgtgat gatgatggaa taggatagca tgccatagtt 360

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ttt 423

<210> 51096

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-C7

<400> 51096

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gggctgctgg ggctcgggcg cggcgggctg tcgttcccga ccagatctc ccgccgctac 180

ggccggagct tctcctactg cctcgtcgac cgcacctcct ccggcgcggg cgccgcgccg 240

ggctcccacc ggtcctccac cgtcagcttc gggcggggct ccgtcggcgc gtcgtcggcg 300

tccttcaccc cgatgggtccg caaccgcgc atggagacgt tctactacgt gcagctgggt 360

ggcatcagcg tggcgggcgc gcgcgtncgg ggcgt 395

<210> 51097

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C9

<400> 51097

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agaggatgtt ctttcacctc tcagtgtttt gcggaaagtt gcacgatcat tgtgcatcat 120
cttgagctat gcatcttctg caactgttga tcaaataat acttgtgtgc tgaatggtga 180
aaactcttcc aagtcttcaa tcttacactt agcattgctg atagaaggat ttcctttgga 240
ttcattgtct gatggtacaa aggaacttgc tatgaataaa atgtttacct cttttgctgg 300
ctatctggag agctactcca agaaccaccg atttatcaat gtgccaaactt gttaattggg 360
cgtttttagga cttcctatac atgctttaac c 391

<210> 51098

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D10

<400> 51098

gacagatcag agccacagct atcaccatca cttgcaccc aacgcccacg gggactgaca 60
tatctaccat agttgccggc ggcgacatca ccaccatagc acttgtccac agctgcattt 120
acagcaccaa caatactcta ctcatgagca atgccatcta cagatacggt ctgaacacat 180
gagtgtctacc gcacgaacat gatagcatgc atcatctgcg gctgggttacc gacatgca 238

<210> 51099

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-D11

<400> 51099

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ggcggctcag ctggcgtcg cgtttctcgc cttgttgtcc tcctctgcct tcttgccgt 120
gtctggccag aagttcaacg ccattctcag cttcggcgac tccatgtccg acaccggcaa 180
cctgtgcgtg aacgggtcccc ccgccggcct gacgtcacc cagccgctct acggcgagac 240

cttcttttggc cgcgccacct gccgctgctc cgacggccgt ctcgctcgctg acttctctggc 300
cgagaaattc gggctgccgc tgctgaaacc gtctaagcat ggcggctcag acttcaagca 360
nggcgccaac atggcgatca ttggcgcgac caccatg 397

<210> 51100
<211> 250
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-D12
<400> 51100

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caaaagtaaa gcagtcatta ttgcaaacc tgcacttct gaattcgagg ttgttagaac 120
tagcctgatg tcgtgtttat taaaaacact gaaacataat atagaccatc caagacctat 180
aaagattttt gaagttggtg atgttgtgat gctggactcg tcacgtgatg ttggtgcctc 240
taataatcgc 250

<210> 51101
<211> 213
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-D2
<400> 51101

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cccaagaccc ccttgaggtc ttttaaccct tgacccttga ccattttcaa gttaaccata 120
tttcgcttaa ccacttcctt gcttttaatt ccgcaaaca ccccaaaatt cttgccaat 180
tccccgggcg cttcttccaa aaaccgtttc cca 213

<210> 51102
<211> 364
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-D3
<400> 51102

cccacgcgtc cgcccacgcy tccgctcatc actataatgg atacaaatga ctactctgga 60
 ggtccccagc agttgaagga acagctgaat gaaaggtacc ctggtgcaag gcgtgctgta 120
 ctgaagactg gtgttgattt tcccttctctg tctcgtgctg atgagggttaa tctgtacctt 180
 cagctacatc tgacacgagt tgggtgtagag ccaagggtcag acctgggtcca aggctttacc 240
 cgaaatggca gcgctgggag ttcaaaggat caaaaagatg gaggggacag ctttgataat 300
 agtgggtggag acaatggcca ccatggttca ggtggcagtg atcatgacag gcggcattgt 360
 gcat 364

<210> 51103
 <211> 286
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-D6
 <400> 51103

gaaaactcag agcaggggtgc ccgaggggta ccagcttctg atcgagtcct ttgctaggcg 60
 gggataatat cgcactctgaa agcatggcat ggcgatgcat aatttgttta cttgatcaca 120
 tcatgcatgt gtaacttatg gatgtctctt ggtgtataag tattgtgtga attccttctt 180
 tgccatcaaa atatatgttt attccttcta aaaaaaaaaa attaaanaat aataatttat 240
 attaattaaa aaccaatta aaaaaaattt taaaaactat attatt 286

<210> 51104
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-E1
 <400> 51104

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 ggtggtgtgt gcattgaatt ttggaagatt ggaaaggcaa tgcatattga gggtgataga 120
 agtggaaaaa ttcccatgtt gaggttccga gaccgtgaat catatgcaca gaataagact 180
 aaagagtacg atgccattgc aatgaagtac cttacctatg tacttttact ccttgtgggc 240

ggttcctcta tctattcact taagtatgaa aagcacaaga gctggtactc atggatacta 300
tattctatga caagctgtgt gtacatgttt ggtttcatta tgatgtgcc ccaattgttt 360
atcaactaca agctgaagac tgttgctcat a 391

<210> 51105
<211> 353
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-E10
<400> 51105

gcagaagata aatcactacc cttggttgat ccttcatcag ctttatgtga taatcagttc 60
aatgatacct acctgttgag tgaacaaaag aatgtgaatg catatggtga acagatatac 120
caagaggatt tgatggagtt gttgccact gaccagatat gcagcggaca tgaaaacatt 180
gatatggttg gaaaccagta tccatctgaa aatgcaattc aaggtaccga agataagaaa 240
ttctctatag cgtcaacttc ccagctgagt tctcagaatt tactgaatca aagacaccac 300
ttagattoca gttcaccaag caatattact tcgaagtcct atccaggaaa gtt 353

<210> 51106
<211> 382
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-019-Q1-K1-E11
<400> 51106

cccacgcgtc cggcaccgcc tcctcctgcc gcgcgccccg cggcgaaccc gtgcaacgac 60
ctcttcgtct caggggttaaa taaacgcaca acgtccgagg gacttaagga agcattttct 120
aaatttggtc aggttattga agcaagagta atcactgata ggatatctgg atactccaga 180
ggatttggtc ttgtcaaata tgcgactgta caagaagctg gtgaggccat aaaaggcatg 240
gatggaaaagg tcagcgcgatg tgtttgactg cagttaattt ccagcttcac tgttcatgga 300
agacgttaac cacattgaat gttctttata atcctaaggc cctattccaa acctctagag 360
ctaataatta gtcagctaat at 382

<210> 51107

<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E3

<400> 51107

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agcaacgtga acctggaggg ggtggacacc tgcgccatcc tcgccgaagc ctccaagtcc 120
gtcgccaaca tcatcggcaa gcccgaggcc tacgtgatgg ttgtttctcaa gggttcggtg 180
cctatggcat ttggaggtac ccaggagcca gcagcttacg gtgagctggg ttccatcggg 240
ggcctgaacc ctgatgtgaa caagaagctt agtgctggca tcgcttctat cctggagtca 300
aagctgtctg ttcccaagtc acgcttctac ctcaagttct atgactcgaa gcgctcggac 360
tttggttga acggctccac cttctagact tgaggtctgc agctgaaata aaagaaattc 420
g 421

<210> 51108
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A6

<400> 51108

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cccctaccgt gaggggtgctg actttgtgcg tggatacccc ttcagcctca gggaggggtg 120
tcacaccgcc gtctcccacg gcctgtggct gaacatccct gactatgatg ctcccacaca 180
gctgggtcaag cccaaggaga ggaatgagag gtattgcatt ttgctctcgt cttttatctg 240
acattctagc aactgccctg ctgctgcatg aagggttggg tctaactccc ttttttttca 300
ggtatgttga tgctgtcatg acaatcccca agggaacctt gtcccccatg tgtggcatga 360
accttgccct cgacagggat ctcatggcc ctgctatgta ctttgggtctc atgggtg 417

<210> 51109
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A9

<400> 51109

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ttgagttttcc aaaagaattc caaaatgatg gcacgacagc agactgtgat ttcagaggtg 120
gtgcaggtgg tgccatcgat gaagcaactg gaagcaaagc tggaatggaa attgcagaac 180
ctcgttcccc aaagtttgca tctgatgacg atgctcctga agattcaaata cataaggatg 240
agaataaacac acagactatg agtggaaacac cagtttagaca gtctgctaag aatgcatgga 300
aaaccttgaa aaggtacaca gacttatctt ctggaggtga atcgtctgac aataataatg 360
aaactgatat atctg 375

<210> 51110

<211> 243

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B10

<400> 51110

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ggtagtact tagtactgaa cttagtacaa taacgcgcag ccgttttggg cggacacggt 120
tctctaaagg cgaagactct gaagtgggcg aacactcggc ccagcgggcg aacatgccgg 180
ctccggctcc ggcacactgc tgacaccttt cgaagcactt tcacgtgtga accgaagtcg 240
tct 243

<210> 51111

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B11

<400> 51111

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agtaccccca ccagcatgcg gccccctctt actccacgac cgccaccgct ttctggccgt 120
acgcgactcg ccgcagaaag agagccgagg acggcatcga cctctcgctg gcgtcagata 180

tggatctcga cgccgacgcg cagcgcgccg cagataagct gaaagcagtg tcagaggaac 240
 ttggacatga gatccgggtt ttttcaagtg agaactttgc tctacaaccg agcaagctgc 300
 ctagtgcaga tcatgaggaa ggtgacgact tttatgagct tcagcctgct gattactaca 360
 acttgatttc aaacaggatg ggagagctat ctaaaatgct aaagac 406

<210> 51112
 <211> 427
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-B2

<400> 51112

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 aggcaggccg cctttgagtg tttgggtggct atctcgtcta cttattatga taagctggca 120
 acagacatgc aggatatatt taatataact gcaaaaagctg tgagggggaga tgaggagtca 180
 gttgcactcc aggctattga attctggagt tccatatgcg atgaggaaat tgatattctg 240
 gatgagtaca gcagtgaatt tacagctgat tccgatgttc cttgctacta ctttatcaag 300
 caggctcttc ctgccttggg gcctatgttg ttggaaactc tcctcaagca agaggaagac 360
 caagacttgg atgaagggtgc ttggaatctt gcaatggctg gnggaacttg tttgggcctg 420
 gtggcaa 427

<210> 51113
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B3

<400> 51113

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 cgcacacaca caccagcagg cagccgcgcg cgggctcgat cgcaatggcg tccaaatcct 120
 ccactgcggc cctcttcctc tacgcggctc tctgctggt cctggtgctg gtggcggttt 180
 ccacgtggc ccaggcgcag ccgacgccgc cgccgccgcc cagctcctcg tgccccctca 240
 atggctccgt gccgctatcc aacatcacag aggtccttgg actgctcgcg gagctggacc 300

tgaacactgc cgcccagtcg ctctgcaccg ctgtggaagg tgtcacttcc ctcgcccgcc 360
 tcctcctcgg ctccatcggg ctcatgctgc ccttcgactt cgagtgcacc agcacctagg 420
 cgcatgcatg c 431

<210> 51114
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B4

<400> 51114

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 ggatgatcca aaggtggtaa gtgcgccttc aaggatcggc gtggccatat cgctcaagcc 120
 ttgagatatg ggtcaagtca ccttctgtaa aacagtacaa gcgttacgta ctgatactcg 180
 tgtccaagaa cataaacttt tggagcgata cctagaacaa ccctctccat tttagccttg 240
 tttttggtaa gagccttggg caaagaagtg ttgtcaggga gttggacttg ttttgtggaa 300
 tgtttccatt aagagccaac cccacaccga ggattgcaaa cacagaagtt tgtattagt 360
 cagaagtttc actctgcgat attttttccc catgttttcc tagtcgacgc aaaatgattt 420

<210> 51115
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B6

<400> 51115

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 gctctagctg ctatctgggt gcgacttcac atactctatt cctgaatgga cgaataatat 120
 ataacatgca tgtacagcta gcgaccatgt ctgaatgaca tcttcgttgc tagctgatgc 180
 tgctactgct acctgtcact ttggtgttct aaaagactct gatgaagcgt tctgaatgtc 240
 tgcatttcaa gtttgcctatg tgacgttaaa aaaaaagccg tatcttagat cttgatgaag 300
 ccaaggcatc tatagacaac gctactgatg cta 333

<210> 51116
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-B8

 <400> 51116

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 tacagtacgt attgctcgtg atttgtgtaa ctacggagca agctgcatac agcacaagat 120
 agaagatggg tatccttgag aggatcaagg agattgaggg cgagatggct cggactcaga 180
 aaaataaagc aacagaatat catcttggac aactgaaggc aaaactagca aagttgagga 240
 cacaactatt agagcctcca aagggttcca gcggaggtgg agatggtttt gaagtcacaa 300
 agtttgggca tggtcgtgtt gcacttattg gatttcccag tggtggaaag tcaactcttt 360
 taacgatgtt gactgggaca cattctgaag ctgcatcata tgagttcaca acgcttactt 420
 gcattcctg 429

<210> 51117
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-C11

 <400> 51117

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 ctactcttgg gtttgcctct tgcccttgct attctagga caacatcggc tgctggttgt 120
 gtacaagacg cggaagacat gaaacgagag tgcaagcagt ttgagctatt ccagcgaac 180
 ccaaagttgc caccgtcggc agcatgttgt gctgtgtgga agagggcaga tgttccatgc 240
 ctatgcaaat atgttaacaa ggaagtagag aaggtatggt gcatggagaa gggtgtgtac 300
 gtgcgcaact attgtaagag gccgtttcaa cctggctaca agtgcgaggag ttatacagtt 360
 cctcttagta tgtaaaagga gtggttggga catgtgtgtac tctcttctag aactttaatt 420
 tgagatttgt aacat 435

<210> 51118
 <211> 304

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-C12

 <400> 51118

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 tcttgaggac tcctacaatc agcttaggat gcgtctcct caggacttga agggtagact 180
 cactgttcat tttcaaggag aagaaggaat tgatgctggt gggctgacaa ggaatggta 240
 ccaatcgctt tcacgagtca tttttgacaa gagtgccctt ctatttacac cagtcgggaa 300
 tgat 304

<210> 51119
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-C3

 <400> 51119

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 gaaggggaag aaggccaaga ccgatgccga cggcggcgag gagaacgagc aaatcgacgg 120
 cgcccttgct tctccatcg agaagctcca ggagattcag gacgagctcg agaaggttaa 180
 tgaggaagca agtgacaagg ttatggaggt ggagcagaaa tacagtgaga ttcgcagacc 240
 tgtctatctc aagaggggtg acattatcaa gaccatcccg gacttttggc tcacagcgtt 300
 tttgagccat cctctactaa gtgagcttct gactgaagag gatcagaaga tattcaagta 360
 cttggactcc attgatgtcg atgattctga tg 392

<210> 51120
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-A4

 <400> 51120

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ggctgcttcc agtccttgat cgcaaccctt acctttctga aggcacaaga caggctgcag 120
 caacaaccgc ttccctcgca aagaagtatg gagcagatat tactgtagtt gttattgacg 180
 ataaacccaaa ggagtctgtc ccagagcatg atactcaaat gtcaagcatt agatggcatc 240
 tctcagaagg cggattttcg gagtttagat tgatggagcg tcttggggaa gggcagaaac 300
 caacagttat catcggggaa gttgctgatg agtgggactt agacctggtt gtgctaagca 360
 tggaggcaat ccactccaag catgtcgatg ggaatttgct cgctgaattc atcc 414

<210> 51121

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-G7

<400> 51121

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 aattcacgtc ttaacactat cggctaaact tccgtgagtt ctgctacgaa cttattaaag 180
 gccggagatg aactacacgt cttcataag gtagagaaaag acggaacttc cgagctccca 240
 gtctgctgcg taaagggtgcc ggaggacgta cctaataagt ccgagggacc cctacgcaat 300
 aaggttgaag gagtaacgca ctcccctttc tagacctcct cgttatagaa ggtaactgaa 360
 gtcgtcaaag tcgtcaagaa agtgttcgat gtccctcatg tctcttgctc ttccgaactg 420
 atcggaactg ctgcggc 437

<210> 51122

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-G8

<400> 51122

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 atagtgaata taccacgact gtggtcggca gttgcgtcta atgcgctact acattcggaa 120

aggactcggg caccatcctc gacgaggttc cgagtccgaa cgagtccgta aagcgtgtcg 180
taacttcagg cattatcaca cacagtcgac gaactgggtc tcaactcggta tccggacggg 240
cgtcgaaaca tacctgtcgc acttaagaga ctcatcgcga agaggtcgcg acgacaatac 300
gagagtcaac tgcgtagta actccg 326

<210> 51123
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-018-Q1-K1-H1
<400> 51123

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gttgggtggtt gcgcttgcta tatggcgctt aagaggtaat gatagacaga cgaaaaacgg 120
aagtacgact cgcactggga agacgacgaa ttagtcctaa aactaataga cttgaaggac 180
cgggtgaccga agtcctagag gtgaagcccc taataagacc ccattagtat aagaagcctc 240
ggggcggtgcg actcatgcga gaagtcactc ggcacaacga atttatagtt actaaacgtc 300
gatttattaa agttaagtt aaagtttagca ctggaagccg ccaatactct aaggtgctaa 360
accgtcgacg aaacgtacgt atgttaaaaa aagaaattat taaagtag 408

<210> 51124
<211> 248
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-018-Q1-K1-H10
<400> 51124

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aacctttacc tcgtgcggca tagccatccc caaatgctaa gcaagcgtc tgcgtcgtcg 180
cttcgcttgc tcttgcctt gtgtgtaaca tatccagctt atgaataaat tatgtggatc 240
agttaatt 248

<210> 51125

<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-H11

<400> 51125

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ggacgtggac atcacctggg gcgacggccg cggcaagatc ctcgacaacg gccagctcct 120
gacgctgtcc atggacaggt cctccggctc gggcttccag tccaaggccc agtacctcta 180
cggccgcttc gacatgcagc tcaagctcgt cccggggggac tccgccggca ccgtcgccac 240
cttctatctt tcgtcgcagg gttcgcagca cgacgagatc gacttcgagt tcctggggaa 300
cgcgagcggg gagccgtaca cgtgcacac gaacgtgtac agccagggga agggcgggcg 360
ggagcagcag ttccggatgt ggttcgaccc cacggcggcc ttccacgcct actccgtgct 420

<210> 51126
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-H12

<400> 51126

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catcggccag gacgatgacg gcgacgaagg gatcagtggc agctgcagcg tcgcctgctc 120
taattgagac cgactagaac aaacaagagt tggctagccc gcccgtcgac caaatcacgg 180
gcgccgtgtc ctaattgccg tagcaccctc tcagtctcag tccctagtag caatcaatag 240
agagaagaag cttgagcttc aacaaaccga caacaacatc ataaaaaggc taagcgcttt 300
gctgccatgt tatgttggtg ctggagctcg tcgcgaatcc agagtgttaa ttagcgagag 360
aatcaatcag atcccttcca gcgc 384

<210> 51127
<211> 92
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-H3

<400> 51127

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aaaaaaaaaa aaaaagaaaa aaaaaaggga aa 92

<210> 51128

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-H4

<400> 51128

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acttagaagg agagtatttc ttatccggcg tctgtctcca cgggcggcac gtagactccc 120

gcgaaaatth ccatcggtaa gattactatc tccgaggcgg agctcctaga cattaccgat 180

aacgctaagg ttaagactta ggataaggag ggtactttgt tggattagta gtgctccact 240

cccgttggtg agtagtcgga ggacggatgt atttccgtgg accataatac ctagaaggag 300

agtatttcnt attcggcgctc gtgttctaag ggaagaacgt agactcctgc gaaaataccg 360

atcggttaaga ttactattcc ggaggccgag agtcctgata ttaccgacaa cgcg 414

<210> 51129

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-H5

<400> 51129

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cacggcactg cgaagggcga tcattcgacg actaaggggc gtcgcgcggg cttaaagaag 120

agggcggcga tttcttggtg gctttcttcg aagtagatcc tttggtcggg gtcggaggag 180

actaagtcta agcctactga tatactgctt aaaccgggt atggctgccc ttagatcatt 240

gacgagaagt agaggcctcc cggttaagtct aagggtgcaag gcgtcgtggc gtagtgataa 300

gctttaccct ctaaaactac taaatcgca catccccgcc cgcaattccg tcgcatcaag 360

ccccgcagtt ggacggcccc ggagtacggc ttggctcctc acggaccgcc ttacgtcctc 420
gaaatcgtag gctcacg 437

<210> 51130
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-H6

<400> 51130

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gtccacaata gaagtcgacg gacattagtg ctatccaaca gtcttagaat aaggacactg 120
atgttccaca gaactccgct ccaccagcac tagaggcttc gttgaggtag tcgccgacgt 180
ggcatacgta acctcgaagg attctgcttg taaggctact aacgaaatat acgagtcgaa 240
gtagcccttt atttcctgcg cggaagcagg taacgtagtc cccgagctac cggacagaac 300
gagggacgaa agtaagaaaa acataccaaa gtcagccgat acggaacgta gtcattccgat 360
agcagaccct octaggaagt ccttttagga cgccgagagg ggcggaaact taaattatct 420
ccaccccgac aga 433

<210> 51131
<211> 476
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-H7

<400> 51131

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cgcacgtgag tcgtatctta cccccctg cgcaaggaaa gcgaggtgaa cggccggacc 120
ctgagaccct gatagaataa cggcgaagtc ggaacggcca tctaatacga tcattcccgc 180
gatagtaagg gcgacacgct aactcagac aatccataag tctgctgtcg acgtctataa 240
acccgggaag ggtaccgagt cttatcagt ctctccggc acggtaggaa cgaactcgtc 300
taatacacc tcagggtccg actcatccaa agtacctata tgagaaagaa attagtaaag 360

ttactaggac cgaacgcgtc ccctccgacg gcggcgcac taaaaccccg agaaagtcgc 420
 agccttgccct aagcagggtg aagagacacg cccaagctcc aaccagtaat catatc 476

<210> 51132
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-H9

<400> 51132

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 tcttcaggga cccgttcagg aaggggcaga acatactggt catgtgcgac tgctacgagc 120
 cgaacgggga gccgatcccg agcaacaagc ggcacggggc cgccaagatc tttagccacc 180
 ctgacgtcaa ggctgaagaa ccatggttcg ggattgagca ggagtacacc cttctccaga 240
 aggacaccaa gtggcctctc ggttgccgcg tgggcggcta ccctggccct caggacacct 300
 actactgcgc cgtcggagcg gacaagtcct acgggcggga catcgtggac gcgcactaca 360
 aggctgcct ctacgccggc atcgacatca gtggcatcaa cggggagggtc atgccggggc 420
 a 421

<210> 51133
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-019-Q1-K1-A1

<400> 51133

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 ctggctcgtc atcggcggca aggtgtacaa tgtgaccaag tttctggagg accaccctgg 120
 aggtgatgat gtctgtctgt cttccactgc caaggatgct accgatgatt tcgaagatgt 180
 ggggcacagc accaccgccg gtgcaatgat ggacgagtag ctgctcgggtg agattgatgc 240
 ggccacgata ccagtaagg tgaagtagac gcccnccaag cagccgcact acaaccagga 300
 taagaccccc gaggctcgta tcaagatcct ncagtttttt gtcccccttg ccatacttgg 360

ccctgctggt gctgtaagga tctacaccaa gtcggaatct

400

<210> 51134

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-019-Q1-K1-A11

<400> 51134

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ccgtcgggtc cttggctggc gacgagcaac taccaggcga ccagtggtg tgttcgggaa 120
cgtttccgcy ggcggggcggc ggccccccagt ggcgaagatg atctgactac cgacgtacgc 180
agcacgaggc gttcgttgcc atcttcttct cctttgagta tatgatacta gcaacatcca 240
cggatatcaac attcgtgaag tatatattct atgttagtga catgctaata gaaggatcaat 300
gggagaaaaa ggcagtgtat acatttttact tggagctcat aagtgcactt gtgcacttgt 360
cattatacat gctcttcttc atagttattc tncatgaacta tggatgatcg cgaccgtgat 420
cttccatgt 429

<210> 51135

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-A12

<400> 51135

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ccccctatgt tctagggtgc agggctcttc ttatcttctg ctggctacta tcaactacca 120
ttctacccat tgttttgttc tgtaactttt cctctctctt acttcttctc ctacgtttct 180
aatattatct tactacctac ttactcatca ctaatcttct ttttccatct tattctcctt 240
ttattatatt atactatcaa catccactgt atcaacattc tttaaatata tattctatgt 300
tatttacatg ctaatgtaat gtcaatttta aaaaaattct ttatatacat tttacttt 358

<210> 51136

<211> 353

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-A2

 <400> 51136

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 gagccagtgc gcctgctgta gacatgacct tcaatgacac gctcaactga gccgtctact 120
 ggcatctatt ctacaagcac gtgtccaatc tgatcatcaa ggaccaggac gacatagatg 180
 tggataacct ctacttcgtc gataagctca ttgcctatgc ggacactaag cacatgcact 240
 tgaagagccg cgatatctac aatactacat gggcaccatg catcactaaa ttcacatgac 300
 acgaggctgc agattaccgg atctacatga tctacaatga ttgcaaggag gac 353

<210> 51137
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G6

 <400> 51137

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 taacggtgat gtggtgttat acttcgtctt gtgttgctgt tctgcgctt tctctgtgt 120
 ctgaggtcgc ggagggttct gaagaggggt tttgtgggtg ttggtcgctg gcttcgctcg 180
 atgattcggg tgcgtggctg ctgtatctgg ttctctctgg tctgtcttag gtgtgtgggc 240
 ctgactctga accttgttct gttgatgatt ttaagtctct gtcgtattgt catgggtagc 300
 attctcatga cggttctgcg tcgcctgttt gtcttatttt atgccccggc ggactagcgg 360
 attagaatgt agcttccgaa cccaccgacg tcgggtccga cagcacttcg gtggtagaac 420
 ttctcgttct cgactcc 437

<210> 51138
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-F1

<400> 51138

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taattaagtt ngttgtaggg tacaggggtg gctgaagaat gatgagaact tngngaaggg 120

agggtggagg agaaggaaga agaggggatg aggggtgaact tgttggagag aaggggagtg 180

anggtgaggt cgggtggcgg tgtgaggggt cctcttgctg tggttactgg tgggtggtgcg 240

cttcggcgct aaggggtgcc ttggggggac tggttcagag cctgcgt 287

<210> 51139

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F10

<400> 51139

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cagcaggatg ccctccgtgc ctttcaactt ctacagaaga ctgcctgccca ggtccgatat 120

gctcctttga gatcacagta ttcggcgtga gagaatcggg tgcaagtctt tacttattta 180

tgtctgttct gctcggatcc ttctgattag tatcagatca gatgtgaata taccagatga 240

gttcgtatat tagacgtcat ttagtgtecc atgaataagg cggttggtta atggttcata 300

tccttctgag tctctgggat agtgagggga ggctcttggg tgcagaaatg taatgttaac 360

tacgggctat tagcatagaa ctaatggcag gaacaatatt atccctcgtg tattat 416

<210> 51140

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F11

<400> 51140

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gtagggcccg gtgtaccctc agcccggccg aggttgccag ggccttcggc ttccccacca 120

cctccgcaa cgcgggcggc ggtggagacg gccccgctgt gccgacgctc catcttaacc 180

gtttccggcc gtcgtacaat gtgttgctg gggcgtaact gcctgtgggc gccatgcggg 240

cactaccagg ttgcgcccac ggaggaggag gttcggatgg ggagggggccg gtgatccagt 300
 gcatgaagtg ggggctggtg cccagcttca cgggcaaggc cgagaaaccc gactatttca 360
 ggatgttcaa tgccagatca gagtccgtaa aagaaa 396

<210> 51141
 <211> 194
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F12

<400> 51141

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 accgtgaatt tttggagggtg gagactccga tgatgaacat gattgcttgt ggagcaactt 120
 caaggcctct tgttacacat tacaatgaat ttaacattcg gctttttatg cgcattgctc 180
 cttaattata tctt 194

<210> 51142
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F2

<400> 51142

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 tgaagaagta tatggtgaag gagactgttg tgaagactga tgtggtgatg atgaattggg 180
 gtggtggtaa ggttgggtag gtggattggt cggggtagga taagggtggg tacgtgaagt 240
 cgggtgcgttt gtctcgttgt attttggtgt ttgatactaa gcttacgtag acttattatg 300
 aggtgtgtta ttttaagtct tttcctgagt tgga 334

<210> 51143
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F3

<400> 51143

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actaagaccg caggggcggt cgcggtcctt acttctgttc cgtcttcgc ccttgccac 120

gcggaggtgg aaactcgtgt aaggttcaac ttccaccact tcggtgtacg taggagtaac 180

aaggatcgcg taggtctgcg tacctagtaa aattctggta ttagtgggca tcgtaagggt 240

agcgcttttt cccctaaact acgtcaccgc attcccgaac gctttacgga agatgaggta 300

gaggagggac ggtatcagct gcgagttgtt actcgtaga tcaaacctaa agcactcgag 360

cgccacgta accgattcgc ggaac 385

<210> 51144

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-F4

<400> 51144

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ttggtggttc tggacggttg aggcggcggt gaggactgag gctactgctt ggagtgtgga 120

gtcgaaagtg aaggttgata tggaggacga tgatccttac agtactctct ttcaattcgt 180

tagtgtggct gcctctcgcg gccacccta gactccgggc gtataccgcg tggtgacgca 240

tacgcctgca ataccagctg cctcctacca cctctcgaa aa 282

<210> 51145

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-F7

<400> 51145

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ttctgagctt cttactaaga attcgtcgcc tgcgatgttg gtgatttga tgttagctgt 180

tactgcggtg gttagtaatg tgctttatgc ttaggttggt gcgtgtcgtg gtgtttgtta 240
 tgggtgctggt gcgtgtttgt gtagtggtgg ttatgatcat gagggttcgc ttcattgtct 300
 ttctagtgtg aggtgggttc ctgttgctgc tgattcgggt aggtcttgtg ttgctagtgc 360
 tgatgtgagg aattggatgg tgcgggctgg gctgggtggt atttcgggtg agtctcatca 420
 tgttactgtg agttgtaatg tgtgttcggg g 451

<210> 51146
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F8

<400> 51146

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 tagccattcc cggcgtagcc accggtataa aatactaggg tataataatc ataataatcc 180
 gcgtcagtaa attccgtcgt tcattcttag taatagtagc cctccttacc taattaatca 240
 gtcgtaccga atctcgtcct ccacccgtaa taataataat cattacctag ttagtcactc 300
 gtcgttcatt tttagtaacc ctccttacct aattaatcga tagtaccgaa tctcttcgtc 360
 caccatagt agtaataatc atcattacct agttagtcag tcggcgcgag tttcgtcatt 420
 cctccgatat aattat 436

<210> 51147
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-F9

<400> 51147

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 tggactaaag catgcctcag ggaatttgt cattatcatg gacgcggacc tatctcacca 180
 tccaaaatac ttgccaagct ttattaggaa gcaaaaggaa actggagctg acattgtaac 240

tggcacacgt tatgttaaga atggtggtgt ccatggttgg aatctcatgc gcaagctgac 300
tagcagaggt gcaaattgttc ttgcacaaac gttactgcag cctggagctt cagatttaac 360
cggatcattt aggctatata agcgagatgt cctggaagac ttaatctcct catgtgtcag 420
caagggtac gtgtt 435

<210> 51148
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G1

<400> 51148

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agtaatgatt caatattaac ggtcgttaag gcaccagttt cttccgtgtc ctccgtttcc 120
ccagcgagtg taataaacgt gcctaccacc ttatagagtc tatccgtctt cagcgtagc 180
accttatagc cttctttatt agccatccta acgggtcctg aatacttagt tgcgtaagtt 240
cataggtcat aatcagtgtc cgtggtgagt gttccataat aattaaccgt ttaaccgtaa 300
taataacttc cggatatactc aatttcataa attaccgtaa tgtaataata ataataata 359

<210> 51149
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G10

<400> 51149

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cnagcatagc ttctctgctt ctctctcccc tctctctctc tcgtccactc ctttgtccaa 120
agcttcgaga tggctcagca gcagaagggtg gtggtcaggg ttccaaccat gacagatgac 180
aagatcaagc agaaggccat cgaagctgtt gcggacattt acggtattga ctccatagca 240
gcggatctga aagagaacaa gatgaccatc ataggcgaga tggatgcagt agcgattgcc 300
aagaagttaa agaagattgg aaagattgac attgtgtctg ttggacctgc aaaagaagaa 360

aagaaggaag aaaagaaaga agagaaaaaa gaggaaaaga aagaagagaa gaaagaggag 420
aagaaaga 428

<210> 51150
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G11

<400> 51150

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ctttccccca cttcacccgc ctccggcgcca tggctaagct cgcgctggcg ctctctctcc 120
tgctggccgt ggcggcgctcc gcgtcggcca gcagcgggag ccacctggat ctgcacctgg 180
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ccgaagagtc ggatgaggag ggccttgacc tggctggatc ccaccgncgc gcgctctacg 300
gcggcgggta catcagctac ggcgcgctgc ggcgggacaa cgtgccct 348

<210> 51151
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-G12

<400> 51151

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tctccgtccc catcgccgcg cagatggatc cgtcgtcgga gccctgtac ggcaggtcg 120
agccgtacga ctccgggttc ctcaaggtct ccgatgtcca caccatctac tacgagcagt 180
ccgggaaccc gcagggccat gcggcggtgt ttctccacgg cgggtcccga gccggcacgt 240
cgcccgga caggagggttc ttgacccgc agttctacag gatcggttctg ttgaccaga 300
ggggtgcang cagaagcact ccccatgctt gtttagagca gaacactact tgggacttgg 360
tagctgacat tgaga 375

<210> 51152

<211> 132
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G3

 <400> 51152

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 aaaaaaaaaa aaaaaaaaaa aagaagagaa ggggaaaaaa aaaaaaagaa gaagaaaaaa 120
 aaaaaaagaa aa 132

<210> 51153
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G4

 <400> 51153

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 atcaggacgc tagcgtacta gtcgttttag ctcgtacacg tccgaagcac acccctcggc 120
 gcccgctttt acacctagcg ctgcgagaca agagatacga aacgctttta gccctccccg 180
 acttacggcg aattcatcca aactcgcaga gacacatcgg gggaaaacgg aggtcgtggt 240
 aacttccgcg tagccgggtt gcggaacata gtacacgtaa gcgcccgcacc gcgtaatacc 300
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 tatcgtcttt gcgc 374

<210> 51154
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-018-Q1-K1-G5

 <400> 51154

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 gtagcctcgc agaaacggtc gacggcgagg atacttagtt ctccgctcgt gataacggta 180

ttggaacggc taaggtcggc cccgtcgggg atgacgtatt aagggtggcc cctttcagta 240
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 ccggtgacga ggtatagctt aagagaggca cctctatgtc taagcatttg accgagtatg 360
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-E8

<400> 51155

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<210> 51156
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D12

<400> 51156

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 aaaatttcac attgaaggcc aaaacattgc cactcgttga gtcattgttc aaaagaacta 240
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 ggtggatata tctttaggac aactttgtgg ggaccacag gtctatattt ggctgatacc 360
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 gctg 424

<210> 51157

<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-D3

<400> 51157

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agaatgggaa ttaggagtct aacagtgatt ctaaggattc gcataactaat aacgtcactt 240
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aggttcctag gaagacttac gctagatcct gtaaggaatt cggagaagaa acctaattgt 360
aa 362

<210> 51158
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D4

<400> 51158

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gcttgagaat ccttttgagc caaagttcga ggaggccgtc gggacgacaa aggatcccga 180
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aacagaagaa acgtcccgac gttccccct gccgtccacg ccaacccccca tttaaaaata 360
aatctaggct acactcgtag catcacacca ccacaaaac acgcaacacg gact 414

<210> 51159
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-D5

<400> 51159

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tcttcgnttg ttattgttct gtctgatgtt ttctcctgcg gttctgtcct agattcatga 180
gttetaactc gtagtcgggc aaccggctgc acagctttct actactggaa cggcggggct 240
atcactccct ttatattcaa cgcggaacttg aaggtagaga acttcaacga gacggccata 300
gttggcgcgt ccctaagttc ctagaaccct tcatgtaagc gttc 344

<210> 51160

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51160

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ccatttcttc tottaatttt ctcttgactc tcacaaaaga tttgaaccct gaaccttttt 180
ctgaatttgt gacttgtgtc ccttcctttg tttaccctgg ctctcgacct ggtgtggacc 240
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<210> 51161

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-D7

<400> 51161

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 ctagatgacg ttagcgacga cgttatagac gacgatgttc aatacgacgc tattaccgac 360
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<210> 51162
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D9

<400> 51162

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 cacggcccat gcatgagcaa caaggactgt gccaaactcg gcgttcaaca taacctcggt 180
 gtcagcgggt attgcagggg caagatccca ttcaacaaag aatgcatgtg tacatttgaa 240
 tgcccatgag tcaaaagcca ctatatctga cgggcgcaac ttgttatata tctaaggatg 300
 ggatgtcctt tggcatgtac tacattttga aagtgtccaa gtgagacttt atacatatat 360
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 <211> 345
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51163

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 tggcgacgtc gtctcgtcgg gtgcccttgc tgctgctgtg cctgggcgtg ctggtgtcct 180

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<210> 51164
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-018-Q1-K1-E11
<400> 51164

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<210> 51165
<211> 402
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-E12

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<210> 51166
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-E2

<400> 51166

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aaaaaaaaaa aaaaaaggat ggttgtgtaa ggggaattaa 100

<210> 51167
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-E3

<400> 51167

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cnnttngtgt agngtgnggn ggtaatgtgg aagagtcattg atttgtngga ggaggatggt 120

aattgtttta attagtatta tgatgatggg ttttaagnntt ggtctgagta tnatgntatt 180

gaggtttatg tttcttctga tactcctgtt gataaggatg atgttcgact tttactggac 240

tcgctgctgg gttatctgaa gtctggacgt atgaacgaac gaataaataa caacaatgaa 300

cgggacgcgt acgcacactg ctacgtgtac gccttatgat gagatgggag cacattatgg 360

cgc 363

<210> 51168
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-E4

<400> 51168

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gcggtaccg ctatgtccag tgaacagtgc cggctcgacgg tcataggttc tgagagagag 180
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 aaaaggatcg gaccgaaggc ggcggcgggg tcccggagtg cgcaagtcct ggacccgcgg 300
 ccaaccggtc gcgaaacaag gagagaccga gagggataga aagaggacga ccgcaagctt 360
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<210> 51169
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-E5

<400> 51169

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 acgtcgtcgt ttgtagcggc ccttttatcg gaagtaagct atttcgagtg tcggtggggtt 420

<210> 51170
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-E6

<400> 51170

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 aggcggtcat caattaatac taagaaccaa ccacaagact accgccggtc gtaaggagac 240

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tcggagccct gggagtcggc ggt 383

<210> 51171
<211> 418
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-D10
<400> 51171

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<210> 51172
<211> 417
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 51172

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<210> 51173

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B3

<400> 51173

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<210> 51174

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51174

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agggcggcca ccgaagtctt cttacctctt ccgtctttaa ataaaccttt tccgtccnta 300

aacaaaacttc aacgcaaagc cccttaacac cgcacgggaa cactcacccc ccatagactt 360

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<210> 51175

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B5

<400> 51175

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64

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<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51176

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<210> 51177
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<212> DNA
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<223> Clone ID: LIB3079-018-Q1-K1-B7

<400> 51177

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<211> 449

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 51178

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<210> 51179
 <211> 427
 <212> DNA
 <213> Zea mays
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 <400> 51179

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<210> 51180
 <211> 280
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C1

<400> 51180

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gcggacgcat agaggcgtag cccacacgaa cgtattagac ggcaacactg acggccccgga  180
acggctatag ccgggattca ccgcttacgt caaacgctga ctcggttttg gtaacatcct  240
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<210> 51181

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C11

<400> 51181

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<210> 51182

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C12

<400> 51182

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<212> DNA
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<400> 51183

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tggcgtaagt gtt 313

<210> 51184
<211> 193
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C3

<400> 51184

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atcatccagg accccggcca gagaccaacg acatcgcccg gcccctcgca taaccgaccg 180
aaagcacaca tcc 193

<210> 51185
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C4

<400> 51185

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acatcaaagg tagagaggag cccacgcgtg ggcgaaaccg acgagaaggc aataacgaaa 120
actggactag aataccccga gttaagtggc ttttagaatc ggaccgccgt cgtcgagggc 180
taagaccata aaactcggga agtgctccta cagatccggt gggtcgtgag cgttacacaa 240
tcgtctaaag atcaaaaagt cataagaaag tacaacgtca ggagacgggt ttctagaacg 300
gctagtcggt gggagtcgtc gttgtcgttg ttacggagta gtaaaccta ataatacaag 360
tcacggaagt at 372

<210> 51186
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C5

<400> 51186

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gggtgagacg atggcggaga aggcggatgt ggggtccctt gatcctgatg tttatcctga 180
ctgttctcct gtccgtttgg atgttgatct tgatggtaag gcgaagtcgt cgtctccttc 240
ggttgattgt aagttcggtc ttctttctct tcggcgtttt gatcgtaatg cgggtggagtt 300
ggcgactcat gagtggtcgg aggtatcgga aggtaaggat gtggcgtctt cgtgtgttca 360
tgctggggat aagtttatcc ggtgtg 386

<210> 51187
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-018-Q1-K1-C6

<400> 51187

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ctcactgact ctgcgaacc aaccagcca cgaatctgac tacggtgtgt ttttaaata 120
attagaattt tagggcgctt tcggcttcta atactggtgg tgcgatggcc ggttgtgctg 180
ctactgagtc gcctgttgat aaggcgttta agatggtgga gaatccttgg tcgtcgcgta 240
ttggagagtg tagtgcgggg aagcggcttg gtaagtgttc gtatcataag ggtgtggtgc 300
cttattgtgc ggcgtttggg cctacgcgtt aggggtggtga tactatggtg ggtaatggta 360
tgggtggtga gctcgtgact ggcgatgttt ggcgt 395

<210> 51188
<211> 67
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C7

<400> 51188

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cgcat 67

<210> 51189
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B2

<400> 51189

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cggaacaaaa aaaaaaaaaa aagcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 180
ggtggttgcc tccgaggatt taacccacg attttcgta cgtaatgcta aagcctccta 240
ccagggtaat tcaacccaaa ctaacgcggt tgggccaat aatcctggaa tcggaaaaat 300
tccggggcaa ttaatccaaa ctgtctcgga gaaaactttt c 341

<210> 51190
 <211> 332
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-C8

<400> 51190

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ttacgaggga acctaaggaa ccgcgggacg acgatataatt cacattcgga cacaccacgc 180
ccctaaattc aaccgggagg acccgctcga aaaccgctcg tcccgctccg agcgatcatc 240
aaccgacggg ctatacagcc gacaatttga agcagtgcgc tcggattagc ggagtacgat 300
tcgatacgtc cgaaaccgga tccagacgca gg 332
  
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<210> 51191
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-C9

<400> 51191

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cgctcgtgg gctgccgcaa cccctcctgc cagtgggtcc actctgccgc gaacctcgcc 120
accaagtgcc gccgcgcccc ctgctcccc ggcgccgcca actgccccgc cgccgccagc 180
aacgtctgcc cgccctacgc cgtggtctac ggctccggct ccacagccgg tctgctcatc 240
gccgacaccc tgcgcgcgcc gggccgcgcc gtccccggct tcgtcctcgg atgcagcctc 300
gtgtccgtgc accagccgcc gtcgggcctc gcgggctttg gccgcggcgc gccgtccgtg 360
cccgcgcagc tcggcctncc gaagttctcc tactgcctcc tgtcccgccg cttcgacgac 420
aacg 424
  
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<210> 51192
 <211> 74

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H7

<400> 51192

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ctctacaact acag 74

<210> 51193
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-H8

<400> 51193

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gttggtcgtc tattcaaaag tggactaggt agattcgggc ttggacagtc taaaccagcc 120

ttcgggtgatc aatctgttct tatcattttt gttcttggag gtattaatac tcttgaggtc 180

cgggaagtca tgacacgcgat atcggagagc agcagaccag atgtggagct tattctgggt 240

gggacaaccc ttcttaccce agacgacatg tttgagttga tggtgggagc gtcaagcttt 300

gcttaggctc aaccttcaact cttgagtcac gtgcgggact tggaaagaaa tcggagcata 360

tntttttctt attcttcaga atagttactt gtctgatgta gcagaagcat tcagactcg 419

<210> 51194
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H9

<400> 51194

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ccaatggggg ccttttcttc ttacgcgggt tttctggttg tcttgggtgct tgtggcgggt 180

tccacgcttg cccaagcgca ggcgacgccg gcggcggcgg ccaacttctt gtggcccttt 240

aatgggttcg tgccggtatt caacattaca aaaggtcttg gacttggtgc ggagcttgac 300
 cttgacactg tgcgccaatg gcttttgaac ggtttggaaa ggggtaattt ccttggtcgg 360
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<210> 51195

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A1

<400> 51195

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 gtatagagag tactaataat aagtcgtagt cggcgacgaa aagtggtaag catatttcgg 180
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<210> 51196

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A10

<400> 51196

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 ggctgccagc gccagcgccg ggacctcctg cgtgccgggg tgggccatcc cgcacaaccc 180
 gctcccagc tgccgctggt acgtgaccag ccggacctgc ggcatcgggc cgcgcctccc 240
 gtggccggag ctgaagagga gatgctgccg ggagctggcg gacatcccgg cgtactgccg 300
 gtgcacggcg ctgagcatcc tcatggacgg cgcgatcccg ccggggcccg acgcgcagct 360
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<210> 51197

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A11

<400> 51197

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gctagatttg agaatgatag aactatatcg ttcatacctc ctgatggatc ttttgatcta 180
atgacataca ggcttagcac tcaggtaaaa cctcttatct gggtcgaagc acagattgag 240
aaacattcta gaagccgcat agaactcatg gtgaatgcaa ggagtcagtt taaagaaaga 300
agcacagcaa cgaatgttga aatttgaatg cctgttcctt cagatgccac aaacccaaat 360
ataagaactt caatggggtc tgctgcatat gctcctgaga gagatgcaat ggtttggaaa 420
aataaatc 428
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<210> 51198

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-A12

<400> 51198

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tcacagaatc ccagagagcc gacaagtgtg aggggaagct gtgaaacggt aatattttca 180
gctaattcca ctttatcccc atgtgaaggc acagtttaag gagcttcatg ggtgaagctg 240
tttccaaaag acctgcttgg caaaaaaaca gtcacaaca tctcatgaaa ctgttggtga 300
agctgtgcc aatagaccct tagttacaca ataatacacc ttgatcatta tcagtaacag 360
ttatgttgnt attggattca cagctgatgc 390
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<210> 51199

<211> 397

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-A2

<400> 51199

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ggtcgggtttt gtacggggct gagtaggtgt gtgtggttgg tgaaaagcct tggaaggagt 180

cgatgagac cggcgcgttg gcgggccttg ctaagacctg ccatctgttg cctctatgga 240

ttattgagat ggtcagagcg gctgttggcg cgtctggtac ttttcccgaa gtcttcagcc 300

gtgaagtggc gtcgggatcc tgcgagtgtc atcccgggtt actacacgag ccatccctat 360

acgacaagca cgtagataca cgggtagcag acgaagt 397

<210> 51200

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A3

<400> 51200

tttggccttt ggtatgtgct tggttatgtg cttgattgtt gtgagacttg gtcttgtcct 60

tagaagtcct cggaatgttg gccttacgag tgctcgactg gttgttggtta cgggtcgtgt 120

cggacttatt tttaaagctg atgagaatag taagaaatcg aaaaggttca aggtccggaa 180

gtacatttaa ttaaccatat tggatatggtc gaaatagacg tgcgacgagc ctccggatat 240

ggtcttgtat catggagggtt aaaaagagac tcgggacgtc tcgagggccg ttgtggagct 300

tgactcagtt tccgtataga ttactgcgga tagcgtcgga actactgcgc tgaatttcga 360

tacgatgtct 370

<210> 51201

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A4

<400> 51201

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tcgaactcgg actcagtagt ctagtcagcg atgcgaatta tagacagcgt taatcgagaa 180
 cgtagaacgt tacggcgcaa atttcataac aggttttttaa gaatacgact aacgtatcat 240
 tctcaacggg tacaacacgt cggtaacgt cggttaagaa cttctctagg ccgagtcccg 300
 ggatacccta agcgtcagat agactgcaat tccgttttaa atacgcagcg ttaacgtgat 360
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<210> 51202
 <211> 415
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-018-Q1-K1-A6

<400> 51202

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 gtccatcttg aggagaattc tgatgataag agtgagtcct cttctagtct taattttgcy 180
 tctaagaagg cgtttgcgct tacttattat ggtaagtttg ctctgtgagct ttagactact 240
 gcgtagcatg ctgatgaggt ccttttgtt gttgtattca acccttcctt acttgatttt 300
 catgattgtg ttaccgtctg tcttcgggtt cttcatgctg atgataagcc tcatagtgtg 360
 cggacatttg cgccataggg taggaatggg ggagaaacgg tggaagtggg gaggt 415

<210> 51203
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A7

<400> 51203

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 ctatctgtag tcatactatc ggtcattaag tccttaagga cgatccggtc gctcatatcc 240
 tgcccctggt cgtctttctg ctttaagcaca ctaatgcagt aaggcggccc aattataccg 300

acgtgtctgc gaggtcgagt ggaaccatc

329

<210> 51204

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-A9

<400> 51204

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ggcctactgc cgtggccgtc gaggcggcgg ctacggcggg tacggtcgcc gtcattggcgg 180

cgccgggtac ggcgggtggcg ggcgctacga tggcgggcggc ggctacggcg gtggcgggcgg 240

ctactacggc ggtggcaact acggcggt 268

<210> 51205

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-B1

<400> 51205

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tcccgtacgc ccgctggcc ggacgtaaca acgggtcggc catcgccct acgctgaact 180

cgaccatcct cgaccgacgt aacttcccc cggtcgcccg tcagtgaacg tccctagaaa 240

ttattctcct cgcccagtc ccccggttag caagctaagt agcgtccgc accccgcaaa 300

caggtagctc ccacgccaac aaactcgac agaaataaaa ccggctacct aacaactaac 360

agcaccacta gaaccatacc ctgcatcat aataaccacc ccaactaata aggcc 415

<210> 51206

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B10

<400> 51206

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gcgaggtgga ggagaacatg gggcggtggc tggttgcaa gaacaccctc aagatcatgc 180
ccttcaagct cccgcccgtc ggccttatg atgtccggt gcgcatgaag gcagtgggga 240
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agccgatggt gatcgggcac gagtgcgcg gcgtggtcga ggaggtgggc gccggcgtga 360
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<210> 51207

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-018-Q1-K1-B11

<400> 51207

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ncgtcgacta cgagtattac gttcactaca ccgagttcaa tagaagactt gaccagtggg 360
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<210> 51208

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H6

<400> 51208

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gaagaatatg aagttcactg agactgttga acttcatatc gttctgaaga attatgattc 180
acacaatgac aagcgtttca attgcttctg ttaaagttcc ccatatccct agtcccaaga 240
tgaatgtgtt cattcttggt g 261

<210> 51209
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-B12

<400> 51209

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aataaatggg caatcatgaa atttccatat cctggagccc tgacagctct gcagtacttc 360
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aact 424

<210> 51210
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G10

<400> 51210

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaagatga aaaaaataaa aaactaaat aaaaaaaacc atgcattgaa 240
cttcctaatt 250

<210> 51211
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G11

<400> 51211

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gtgctgcggc tcgtggtcgg cgttgccgtt gccgtcgccg tcgccaagta aagagagaca 180
gggaggcaca ctagacggcg gcgtggacag gagcgagtca agcagaggat ggaacgggga 240
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catgaagttc agcgtctacg tctgcgtgca cgtctcgctg acctacgtgg tcacctacga 360
cttcaagacc gtctagaaga tcatgggca 389
  
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<210> 51212
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-G12

<400> 51212

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tcaaggagct gaagcagctg gagagccgcc ttgagaaagg catctctaag atcagggcca 180
ggaagagtga gctgctggct gcggagatca gttacatggc caaaaggag actgagcttc 240
agaatgacca catgaccctc aggaccaaga ttgaggaggg agagcaacag ctgcagcatg 300
tgaccgtggc acggtcagtt gcagcagcag cagcagctgc caccaacttg gagctgaacc 360
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<210> 51213
 <211> 445
 <212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-G4

<400> 51213

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cgcggcgact ggggtctacga gaacaacggc gggacctgcg tggccatcgc cggcgccgat 180

tactgtgtcg tcgcgggcga caccgcctc tctgtcggat acagcctcct cacgcgcgac 240

cactctaaga tctgcgacct ggctgacaaa tgtgtactag catcttctgg ctttcagggt 300

gatattaaag ctctgcacaa gaacctagct gccagaggat tgctatacca acaccagcat 360

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cgcttcttnc catattacgc cttca 445

<210> 51214

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-G5

<400> 51214

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gcagatcttt gtgaagacct tcaccggcaa gactatcacc ctcgagggtg agtcttctga 120

caccattgac aatgtcaagg ctaagatcca ggacaaggag ggcattcctc ctgaccagca 180

gcggcttatc ttgcgcgga agcagcttga ggacggagc acacttgctg actacaacat 240

ccagaaggag tcaaccctcc acttggtgct gcgccttaag ggaggcatgc agatctttgt 300

caagaccttg actggcaaga caatcaccct tgangtggag tcctcagaca ccattgacaa 360

tgtcaaggca aaaatccaag acaaggatgg cattccacct gaccagcaac gtctcatctt 420

ttgccgcaag cagttggagg atgggagg 448

<210> 51215

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G6

<400> 51215

ggaagaaaca aaacgaaagg cgggtgtcagc tgctcctcca cttccccgtgt ttctaagtgc 60

ggtgggtcca ccactagcaa cccgtgcagc gagcccaccc cgaccactgc catgtcgagg 120

cgcgggcgact ggggtctacga gaacaacggc gggacctgcg tggccatcgc cggcgccgat 180

tactgtgtcg tcgcgggcga cccccgcctc tctgtcggat acagcatcct cacgcgcgac 240

cactctaaga tctgcgacct ggctgacaaa tgtgtactag catcttctgg ctttcagggt 300

gatataaaag ctctgcac 318

<210> 51216

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G7

<400> 51216

ggagcccccg ccggcgccgc tcttcgagcc cggggagctc aagtcttggc ccttctaccg 60

cgccggcatc gccgagttcg tcgccacctt cctcttcttc tacatctcca tcctcaccgt 120

catgggcgtc tccaagtcca cctccaagtg cgccaccgtc ggcatccagg gcatcgcttg 180

gtccttcggc ggcatgatct tcgccctcgt ctactgcacc gccggcatct ccggcgggca 240

catcaaccgg gcggtgacct tcgggctggc cctggcgagg aaagtgtccc tcaccagggc 300

ggtgttttac atcatcatgc 320

<210> 51217

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G8

<400> 51217

cggcgtcacg tgcagcagga cgctgcgctc ctacttggtta gccgaatcca gcgtcgggtga 60

cccagacaga gcgacagacc gaggatgatg gcctctcaca tcggctctca ccgaggccgt 120

ctactagggc ctctgatact

140

<210> 51218

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G9

<400> 51218

catgtacgta catggaaagc tgatggcttc ctgactttta atttctgggc aggtcccaaa 60

attttcgccc tgagaatgag atattatata gataacatac atacatacca tattcggtgc 120

c 121

<210> 51219

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H1

<400> 51219

aaaaaaaaagc caacgacggc accgatctta aagcccagaa gagctcaagt acaaaaacgg 60

gtggcaaaca aaaatgagaa gagataaaaa acaacttaat ataaatatac agtgtactcc 120

ttgaacggca ttcaagttta caaatccttc tttagctgag cttccgtctg cattcagggc 180

atctactggt acttaagtgg catgatcttc acacttttct actggacaaa c 231

<210> 51220

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-H10

<400> 51220

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cccgacgcc a gccttggtggc ccgcgtgcag gggatcacca gcgaaatcgg gaacgcgcac 120

caactgttcg tcgttggttt cgacaccgac agctgttcgt ctgcacctgc atatgcgtct 180

ctctgctgcc aggctcaagg gctccacgct cgtcaccaat ggcgtgataa cggccgggtc 240

tgacgagtgg gcgatctacg gcggaaccgg ggtgtttgcc atggcgaggg gcgtcataag 300
gagaaggtat ctgcgcgaca gggccggcgg gaacactgat gagctcaaca tggatgtctt 360
ctgccggccg tttggctcac agtcagagct gcaagattag atgcangtgc aggggcaggg 420
ctctagcgt 429

<210> 51221
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-017-Q1-K1-H11

<400> 51221

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cgtcggctct acctctccgt ctacaactgg gtcgtcttct tcggatgggc gcaggtgctg 120
tactacggcg tcttgacgct gcgtttgagc gggcacaagg ccgtctatgc cgccgtcgag 180
aggccgctgc agttcgcgca gacagccgcc atcatggaga tcgttcatgg gtcgtaggg 240
ttggtgaggt ctccggtctc tgcaactctt ccacagattg gatccaggtt gttccttacg 300
tgggggtgtct tgtggagttt tctgagacc cagtcacacc ttcttgttac taccctgggc 360
ataagctggt ctatcactga gatcatcaga tactctntct ttggaacgaa ggaggcattt 420
ggctt 425

<210> 51222
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H2

<400> 51222

cgtaccggaa ctgaattctc gactcacgcc acgcgtacgc agactcacgc gaagcaggac 60
gctgcacacc tacctgttag cctactccag agtcggggag ccagactgag cgacagaccg 120
actgacatgg cctctcacat gggctctcac cgaggccctc tcctactgcc tccgatactg 180
ccttcgtaac cgtgcctaca gcctgctgaa ggaactgac agcgaactgc acctacgcat 240

cgactatcac tacgaagcca attcgggtaca tgctctgcat gatcttattg atcagcttgt 300
 agtccacatt gctttctaca 320

<210> 51223
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F8

<400> 51223

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 aggtgaccaa cgctgctgcc aagaacaaat gatctatctg cctgggtgctg tgcttgcttg 120
 ttggttacct cgtggaagct taaaatatct cctcttgctg acatccttgc agttgtctcg 180
 tgaacaacta atctatcatg gcaatgtttg cctgggtcatg aagtattatt actttcgttg 240
 aaaccgtgat gctattaata cttaattttc atatcgaaca tcgaatgtaa ggcatatcatg 300
 gttatgagtt ttgtactacc ccttgcattg t 331

<210> 51224
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H3

<400> 51224

gggtttggag cccacgacta cccatccagt ggtgtgtttg aggtggaatc aaagaggggc 60
 cctggcttta tctacagaag aacagtgtgg ctaggcacaa cagacatgtc tcaggaagaa 120
 ttccgctcgt ttattgaaaa acttgcaggt gattatcatg gcgacacata tcatttaatt 180
 aacaagaact gcaatcactt cacagatgat gtctgccaga acttaactgg gaaacccatc 240
 ccttcctggg tgaataggct tgcaagagta gggtcagttt tcgattgcct tcttccagaa 300
 agcgtacaag 310

<210> 51225
 <211> 209
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H5

<400> 51225

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aaggcacttg ccatagtggc ttaccaactc aatatgtcac aacatactgc tctgtacaca 120
tagctgccta caaccattcc acagtgccag gtactaatgt tacttctaga cccattcacc 180
tagattattc aaagatctca attgcaata 209

<210> 51226

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E11

<400> 51226

cccacgcgtc cgcccacgcg tccggatctc agtcacctgc gccgccgctt cgttcgtgtg 60
gagggggagaa gagaggaaat ggcggcgacc gagggcgctgc tcctggggat gggcaacccc 120
ctcctcgaca tctccgccgt cgtcgatgac gccttctctga caaagtatga catcaagctg 180
aacaatgcta ttctcgctga ggagaagcac ttgcctatgt atgacgagtt ggctagcaag 240
agcaatgttg aatatattgc cggaggagcc acccagaact ctatcagggt tgcccaatgg 300
atgcttcaaa ctctggtgac aacaagttac atgggatgca ttggaaagga caagtttggt 360
gaggaaatga agaaaaacgc tcaagctgca ggagttactg ctcattacta 410

<210> 51227

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E2

<400> 51227

aaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60
aaaaaataaa aaaaaaaaaa ataaataaaa aataatacaa aaataatata tccaaatatt 120
tattaactat ctcaatgtct ctctgtcttc actctaagta ttaacttttt tattgcttct 180
tctaaattta tttttttgtc cttcttctaa a 211

<210> 51228
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E3

<400> 51228

cccacgcgtc cggttttattg tatccatatg gccacgaaga attggccggt tgtgaagatg 60
ttgaccaggt tcgtggtgca atggagaagt acccaccata ccagtctata ttttccagga 120
tttcatatgg agaaagtcag atgttggata aggcatttta tgaggaggaa gtcaagaggc 180
tatgcttgtc ctttgagcag cagttccact acgctgtttt cttcgcttac atcaggctcc 240
gcgagcagga gatcaggaac ctgatgtgga tctctgaatg tgtcgctcag aaccagaat 300
cccgggtcca tgacagtgtc ggcttcataa tctgagaacc cccggcacta tatatggatg 360
tacaaaatgc ctgctttgat gattgcacaa tcgcttgaca attattaatc tggg 414

<210> 51229
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E6

<400> 51229

cccacgcgtc cggctccttg caagtgggtg ttatgttaga cgactgcgta tggggccgag 60
ttcttggatt cagcagactt aacgcatgta caagtctgag actccatttt tctatgagac 120
atctaataga ctatatgaca taactttaag actcagtatt ataaatgcag ttaatagaca 180
aaataaaatt cccccccat ccacatgctt gcgacaaaaa gggcgtctat tct 233

<210> 51230
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E7

<400> 51230

cgagaaggcc atacttctcg tcctattccg aggaccacca gaactgccgc ttgatctgta 60

gctcgaaggg tttcaaggac ggtggctggt gtgacgaaag cgtggagcac aaagtgtgct 120
gctgctccca ttagaaatat aatagcgtat gttatgttga tgcataatata tatgcatcat 180
ccatctacct gtgtggtgca aaattctgaa taaaacctga ataaacctga ttgattaaaa 240
aaaattaatt ttatctctca agttgaaaat attattttta ttttttaatg tatatatattt 300
ttgtttctttt tttttgtggt ttatatatttt 330

<210> 51231
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E8

<400> 51231

cacaggagtt tactctccaa aggctgtgga caacaagcag ttaccttcac abccatctct 60
gctgcatgca tcgcttgga tgccctcccc tggccggatg tctccacgat gtgtcgaatc 120
aggctccccg atgaactccc acctagctgc tgctcttgcc cagcgtgaga agcaacagca 180
gacgatgaga agcctcagtt ctcgtgacct tgggccaggt gcggcacgag cttcagctct 240
cggtccccct ctaagcacat catggtctaa gtggggatct ccttcagggg taccagactg 300
gggcgtacat ggtgaagaat tgggtaagct cgcgtcgtca ttcgcgttcg agctcatgtc 360
tcgctgcgat gaccctgatc tctcctgggt gcatacactg 400

<210> 51232
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E9

<400> 51232

gtttttgctg tcttcttatg catatctgaa gatgtagtga gtttttttta gcagagattg 60
catagtttca gtttggctcc ttgattacgt tgccctcttg accattttta ggtggagtgt 120
tcatatcagt gtcagccctt tgttggaatt taactattaa attcattcgt aattctcttg 180
tagtggtata atcaaagtgt taggttgcac gtaaccatag gtatcctacc aaattttgtg 240
tttgtggacg gatgttctgc ggggtttttt tttgtgtgtc gatgctatgt ggcattgctt 300

atatcggttt cttgtgttga tgaacgccga tgattgtttc cacttagttg tctgatttac 360
aatagttaac acgacacgac atccattcta cacattatta ccttaaactg aagaatctga 420
tg 422

<210> 51233
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-017-Q1-K1-F1

<400> 51233

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agctgggtctc aagtccaaag gaagcctttt cccgtgtttc ggctgatcgg agaaacaaac 120
ttatgaagag tggcctatct caatcatatt caacacacgg agacaaaaat attgtgaaat 180
tgagtaaact aacagaaacc aataggaggt ttggtggagg gcggggccctt gaaccgnctg 240
ctatcaacca ggggtgcaatc acccagcttt cagaacagat ttcaaca 287

<210> 51234
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F10

<400> 51234

tcttgagtca ttaggcataa aagagctgga gcacctggag aagcagctcg attcgctcgtt 60
gaagcacata agatctacaa ggacacaaca catggttgat caactgacag aacttcagaa 120
aaaagaacaa atgttttgtg aagcaaataa gtgtcttcga agaagactgg aggagagcaa 180
ccaggttata tggcagcatg cgtgggagca aagcgagcgg cattctgaag tgcagccgca 240
gcagctcaat ggcaataact tcttccatcc cctcgatggg gctgggtgaac ccacccttca 300
gatagggtat ccttcagagg cactgactag ctcatgcatg accaccttcc tgccccctg 360
gttgccatga gatcgaaacta ctgcgcaatt ccgaattaat aagcatggcc gcatgc 416

<210> 51235
<211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-F12

 <400> 51235

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 gcgctccgct ccgctcccct ccgctcccga acggtcgata tttgcatggc agcagcagct 120
 ggctccaagg ggcggggcgat cgctggaagc ttcgtcagcc gcgtcctcgc cggcaaggcc 180
 gcctcgccga ggagggccgt gcacgcctcg gcgtacgaca agaacctgga ggaccaggtg 240
 cgcccggcgt tcgtgccgga cgatgtgata ggcagcgccg ggagccccga caagtactgg 300
 agccccacc ccaagaccgg cgtcttcggc ccggcggcgg tggaccccaa gctggccgct 360
 ggtggcgcgc cggacgccgg cgcggtatgt gcaggaggca cggtgct 407

<210> 51236
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-F2

 <400> 51236

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 gctgcatgca tcgcttgga tgcctcccc tggccggatg tctccacgat gtgtcgaatc 120
 aggctccccg atgaactccc acctagctgc tgctcttgcc cagcgtgaga agcaacagca 180
 gacgatgaga agcctcagtt ctcgtgacct tgggccagct gcggcacgag cttcagctct 240
 cggctcccct ctaagcacat catggtctaa gtggtgatct ccttcagggg taccagattg 300
 gggcgtagat ggtgaagaat tgggtagctt cggcgttcat tcgcgttcga gcttaggtct 360
 ggcgcgatga ccctgatctc ttctgggtgc atacac 396

<210> 51237
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-E10

 <400> 51237

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ggaggggatg aacgtgaagg aggagtgcc a ggcgtgggtc atggagatga agtggaagaa 120
ggtgcaccgc ttcgtggtgt acaagatcga cgagcgggtc cgcgccgtgc tggtaggacaa 180
ggtgggcggc cccggggaag ggtacgagga gtcgtgggcc ggcgtgcccg gcgacgactg 240
ccgctacgcc gtcttcgact tcgacttcgt caccgtcgac aactgccaga agagcaagat 300
cttcttcate gcctgggtcac cggcggcgtc gaggatcagg gccaaagatcc tgtacgcgac 360
atcgaagcaa ggctgcggc ggctgctgga cggagtcac tacgaggtgc 410

<210> 51238
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F4

<400> 51238

gcggacacac cacaggcgcg caagcccaac cgatcgagca gctctagcat ggcgagcggc 60
ggctactact acgaccagag cgcgggctac ggcgggtaca gctactcggc ggcgccgagg 120
acgacgccgt cccacctcct ggtgttcctg gccaccgtgg cgctgctggg cgccacgtcg 180
ctctactcgc gctacgagtc cgcggtggag agcctgggtg accaggtgcg gttcgccgtg 240
gtgctgtccc cgctgctgct cctgctcgcg gtccagtact gggc 284

<210> 51239
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F5

<400> 51239

aaagaaacaa aaaaagaaca caaaaaataa aaaaacaaac aaatataaaa taaaaaaggg 60
gaaaatacta ctacaacgag aacgcaaac taaggcagct acagatact 109

<210> 51240
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F6

<400> 51240

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ttcactacga ccggagatac ggctgcatcg gctacatcta ctctctctcc atccacgacg 120
acgccgcgca agctgccagc ctgcatggtc acctgactga tattactcgc taactgtgtc 180
tagcaagcct aatagtccac catggatagc ctttaagcacg aaacactgga cgacaccatg 240
ctggcccgctg ttgatctcat gcttgggctg caatactgtg tgataccgga cga 293

<210> 51241

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F7

<400> 51241

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aaaatataaa taaatagaat actattaata aaaaaaaatt tatatcgtat actatcttac 120
ttaaaggatc caattattat ttttgctttt tttctcactt ttaatatattt atatatttgc 180
acttaatttc aattttttgt tcttatttta acatttttct tacctggata accttttgc 240
ttatccattt aaatattttt t 261

<210> 51242

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C3

<400> 51242

atccgccgcg ccggactgcc cccgcgcgac ctacgcatcc tcggccccgt tttctctcgc 60
tcctccagca tcctcgctag ggagaaggcg atggtgatca acctcgaatt catcagggcg 120
atagttactg ccgaggaggt gctcctgttg gaccctctca tgcacgaagt gctccctttc 180
gttgaccaat tgaggcagca cctgcctctg aggagccggg tgggtgagaa tgggtgagtgt 240
gcccctgatg gcaatgggga aaaacagaat ggctcgctta atga 284

<210> 51243
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C4

<400> 51243

gcgttcaagt accaactcta acatgagacg ttcacctaaa ggtcatgcac cgaactctgc 60
ctggtcagaa agaattgcta ggcgatcatg cgttcacttc gaggagctca tatgtctaca 120
cttattaagc tacacacctg acatacttca tggcaccatc taccattggc ctacagcgac 180
agcttgtcga gacattgact acctcaggac gattgctgga catcgtactg ttcctgtcga 240
aatctgaaag aattacgtgt gtaccgagtg gaagcacgag cttatcacat tttatca 297

<210> 51244
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C5

<400> 51244

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tcgtaaccat ggcggtatcg aaggccgctg cggcggtgac gtcgccaca cgcaagttca 120
tgaccaaccg tcttctgtcc cgcaagcagt tcgtgctcga ggtcatgcac cccggccgcc 180
ccaacgtctt caaggcggag ctcaaggaga ggctggcgaa gatctacgag gtgaaggacc 240
caaactgcat ctctgtgttc acgttcc 267

<210> 51245
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C6

<400> 51245

cccacgcgtg cgtccgcctg cgccttcgcc ccggcaaaaa gcaaaacacg gtcattggaag 60
gctacgaccg cgagttctac cagttcagcg accagttgcg cctgcagacg gacgtcttct 120

ctggcctctc gctcggcgac tccatctggg ccccgctcgg ccggcgcaac atcagcaacg 180
acgttctctt cggcgtctgc gcgtcgtccg ccaactccgc cgccaagagc aacgccgtcg 240
tcgggctcaa gctcaacgac tgatggcccc gctcatcgg ctccgggaag ct 292

<210> 51246

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-C7

<400> 51246

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ggtgcctaata tggcaaagggt ggttcaatca ttactgagat acggagaaca tccagagcaa 120
atgtacgtat tctttcaaaa gaaaatgttc caaaggtagc agcagaagat gatgagatgg 180
ttcagatcac tggaggcctt gatgttgcaa gaaatgctct tgtgcaaata gctacaaggc 240
tgaaagccaa tttctttgaa agagaggggt ctgtatctgc atttncacct ggtatccctt 300
accatgcttt gcctgcttgt gtttcggatg gacaaaaata tctaagcaga gacaccaagc 360
cttgtgggca ctatctatat tcaagtgggt ntctgtacatc ggatgacacg 410

<210> 51247

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C8

<400> 51247

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taagaaagtt gagaggcgat catgcatttc cttggaggag ttcatatgta attacttttt 120
gcgcgacacc cccgtcataa ttagtggcac catcgaccat tggcctgcaa ggacaaaatg 180
gaaggacatt gagtacctca agaagattgc tggagatcgt actgttcctg ttgaagttgg 240
aaagaattac gtgtgtagtg agtggaagca ggagcttatt acattttctc agttcctgga 300
tagaat 306

<210> 51248
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C9

<400> 51248

ttgacatatg tgaaattgat cagctgggta ttgatatctg caaggaattc tccccacgtt 60
tgtctgttgg atttgaagat cctcgtgttc aacttcattgt tgggtgacgct gtggagttct 120
tgagaaatgc tcttgaaggg acatatgatg ctatcattgt tgattcatct gacccaatag 180
ggcctgctca ggaacttgtg gagaagcctt tttttgagac catcgctaga gctttgaggc 240
ctgggtgggtg tctttgtaat caagctgaga gtatgtgggt gcatacacat ttgattcagg 300
acatgctttc aatttgccgt gagactttca agggttctgt ccgctatgca tgggctagtg 360
tcccaacata cccgagtggg gtgattgggt ttctgttatg cgc 403

<210> 51249
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D1

<400> 51249

gcagcgcata cacaacgact tcatcgactg accccaaggc gtacggcttc cagaccggca 60
ccgacgcgtg ctgcggccag ggccgcttca acggcatggg gctctgcacc atgggtgtcca 120
agctctgcgc cgaccgcgac acctacgtgt tctgggacgc cttccacccc acggagcgcg 180
ccaaccgact catcgtgcag cagttcatgt cgggctccac cgactacatc acgcccata 240
accttagcac cgtactcgcc gtcgaccatc agaagcagca gctgcgtac 289

<210> 51250
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D12

<400> 51250

gtgcttccga gaataaattt tttccatcgg aatgtctgaa actatgttgg gtgtatccta 60
 gtgggttggtt gagcattaat ggctcatatt ttgtcaggtc tatgtgtcgc cgtgaaactt 120
 ttaatcaaat cagttcactc ttttgccaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aacaaa 216

<210> 51251
 <211> 341
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-D3

<400> 51251

ggaagatttc ctccagaagg cttgccaaga ggtgtccctc catctcagcc tgtgcatcac 60
 atggcttggtt atagacctga aatgggtaat gtaaataatt tccatatgca ccctcgccag 120
 cccaactatg gagaatttgg attgatgatg ccaggcccat caggccaga ggtgaggggc 180
 aatcatccag aggcgttcga aaggttgatc cagatggaga tgtcagccag atcgaagcaa 240
 cagcagggtgc accaccctgc aatggccgct ggccgtgtgc ctagtgggat gtacgggcac 300
 gagcttgatg cgaaatngag atacagatga tggatgcctg g 341

<210> 51252
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D4

<400> 51252

cccgcgagag gctgccgtgt agggaccgta gactcagcga ctgcgaagga gggataaggg 60
 gatggccggg atcggaccga tcaggcagga ctgggagccg gtcgttgtgc ggaagaaggc 120
 acccaccgcc gccgccaaga aggatgagaa ggccgtcaac gccgcgcgcc gcgccggtgc 180
 ggagatcgat accatgaaga agtacaacgc tggtagaac aaggcggcat ccagcggtac 240
 atccctcaac accaagcgc tcgacgacga caccgaatac ctgcgccatg agcgagttcc 300
 aagtgatctg aagaagaatc tcatg 325

<210> 51253
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-D5

 <400> 51253

 cccacgcgtc cgcacacgcg tcctgcgggc gaccacctgc cgacgccggt ccgcatggca 60
 ccgtcggtcc atgtgccgcc ggcggttcat catgacgcct ctaccatacc actaccatac 120
 tcaaccgcga cagcctcagc ctcatatgca gggacaccca tgcccgtacc aacagccgca 180
 tccaag 186

<210> 51254
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-D7

 <400> 51254

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 cacaggcaaa cccccgtcat ggcctcctac aagatactgc gcgccgccgt cgtcgtcgtg 120
 gccgtcgccg tgtgtttctt cgacggctcc gacctagccg cctaggctcc tgcgccgagc 180
 ccggcctccg gcgccgcggc cgtctcctcg tcgctcttgg ccgccgcctt ctgcccggcc 240
 gtcgcgctcc tcctcggcaa cctgcgccac tgatgacgcc tgctgcctg tncgacgaga 300
 gccgncgtgt gctgtcgcgt gatgttattg gcctctgtat gtgtgtgtgt gtgttcctga 360
 cctgtgcgtg ccttgtaccg ncaccccgcg cgtggatggg aactttatcg atcgttcgga 420
 gattc 425

<210> 51255
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-D8

 <400> 51255

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ccagcatctg accgatcagg caggactggg aacccttatg ttcgcgctag aaggcaccga 120
ccagaccagc ctacaatgct gacaaagcct tcaacagctc gcgacgagcc tgtgcactaa 180
tcgataccat gaagaaactc aacactgtta cgaccaaagc tgcattcagc ggtacattcc 240
tcaacacca 249

<210> 51256
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D9

<400> 51256

ttaaaactct cggagagaga atgcacgctt tctttgatta tcttgaacca gcgccgaacg 60
ggggaagccg aaccaccgcg tatcaaacat aggaaagcac gtgatgattt ccttgcaatg 120
ttggaataac gcatggagct tacatcatca acaagatgga ccaaagcaat acttatgttt 180
gaagatgatg aaagattcac agcacttgaa cgtccaaggg agcgtcaaca tttatttgag 240
aactatcttg tggaactgca taagaaggaa aaagccaatg ctgctgatga acacaacaga 300
tatgttacag aatacagagc ttttctagaa tcatgtgact tcatcaaagc aagtactcac 360
tgagaaaaag ttcacgaacg tctggatgac gatgaacgtt attcccgact tgaga 415

<210> 51257
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-C12

<400> 51257

cacagacaca cgatgcatgg aaccatggag cgagatgcaa accgcaggat caagtatgga 60
cattcatacc aggagagggc acatagaact tgcccagggt gtaagctgtg tgggtcaaaat 120
tacaattacc ccaatggtga ggaattttct gcaatcagcg gttgtcagga ggcatactac 180
cagacagacc atgatctgat tccttcaact tctcaagtag catctcattg cgagggttct 240
tgctgcaagg gccagcagtt gaaaccgaaa agttattctg tgatgcgtga ttatgactat 300

atcaatcaag agtcaacacc tagttcaagt gaccatgccga gaacaagatc taatcttcca 360
gcgccgcctc atcattggca tgttaaacad tctaatagagc atcggangca tgttactgat 420
gcacat 426

<210> 51258
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E1

<400> 51258

gaatgctcag ggtctggctc gctacgccat catctgccag gagaacggtc tggtgccaat 60
tgttgagcct gagatccttg ttgatggccc tcatgacatt gatcgctgcg cttacgtcac 120
tgagacagtc cttgctgctt gctacaaggc tctcaacgag caccatgtcc tcctggaggg 180
taccctcctg aagcccaaca tggtgactcc tggtccgac tctaagaagg tgacacctga 240
ggtgatcgcc cagtacaccg tccgtac 267

<210> 51259
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A7

<400> 51259

cacatgcaat ggatagtctt caactggaac aggtaatcac cagtcaaagc atgaatagac 60
tcatttgact gtgtcaatta gagatgcaaa gtgaagcaac aagttgaacc tgcaaattac 120
tagatgcaaa aaaggcactc ctggatacct tgtttggtgt tcatgcagtc ctgctaatat 180
gaacaactcc atcttcttgt gaatcttaag tatatttgga aaatgtggaa aacacgaaaa 240
cctgaaccag cacaagaatg cttacaactt ctcaaggatc acctgaacct ttggactatc 300
agaacttcat cgaacctgaa tcaacattcc ccggtcatca ccttgaatta gtggcgtaac 360
cattcttatg atgcaagcac atagcttgct tatttggtcc ttaaatcatc ac 412

<210> 51260
<211> 312

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-A8

 <400> 51260

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 tgttactgca gaggatgtcc agaagagcag gatcttctat atcctatggt ccccatcctc 120
 cgccaaggtg aagagcaaga tgctttatgc aagctcaaac cagaaattca agagtggcct 180
 caatggcatt caggttgaac tccaggccac agatgcgagt gaaatcagcc tcgatgagat 240
 caaggatcgg gcacgctagg cgcaccgnca tcgcgagttt catggtcacg catcatggac 300
 tcgcctacta ct 312

<210> 51261
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-A9

 <400> 51261

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 cttcacatta ttggagccag aggagcgggc ggcggttgc actccatccc atcgcttggg 120
 tgcgtcgccc cgaatccaat cgcttggtca agtctgttgc tgccggaggt agacggacgc 180
 cttatcgtgc tcgtggccgc agctagcgcg ccggagccac agctggagcg ctgcgccggcg 240
 acgagtcgcc gccccgcaag gagcctacgc aggcacgcac cgnacgtct aggcgccagg 300
 cggagacgtt attaccacaa cattaaagga gatgccttca ctccagaaag cattgcctnc 360
 agaactngct gataatgtgc tcaggttata tcgtgaatgc 400

<210> 51262
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-017-Q1-K1-B10

 <400> 51262

cgacaatggc aagggccaag gaagacgagc agatcatggg aattgaccta gaatcttgca 60
atctagcaaa acgatcattt tatgatgcca tgcaacatga cattctagaa atatgggtgg 120
ctaccacgaa gtgagtgtag cattatgtat tatgtttctca tttgttcac c agttgcaaca 180
actatattgct aaactctttg aattttgtaa taattggaat gtggtcgcat ggtcagacta 240
tgtttgcttt ctaaaacact catgtcttag tttataggtc gtgtacactt atttaagtta 300
ttggttgatt aagatctggg cttcaagtgc aaaaaagaag acgag 345

<210> 51263
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-017-Q1-K1-B11
<400> 51263

atttacgcat acttatatat atatgatttg tgtgctttat ataaacccgc gtttctgatg 60
atatggcctg gccggagggt acaatagtag tagatgcaac agctaaattc acacgtacaa 120
atgcacgcac acagtgggtg cactcacaaa tatatatacc ctaacagttg cactaatcac 180
aattattaat aattaagcaa acgtacgtag agttacttga gatctcgatt tggcacatga 240
tataactgca tgcgtgatct atctcgattg ggggccgggc gccgccaggt atagcgctga 300
tttcatcatc cgagctggag ggttgtaggt tgcagctgat gggagtagtg ctgaggcatg 360
ctcacttgca gaaagtttct cgagtcgaaa ggggccatgt ggtcgtactc gctcgt 416

<210> 51264
<211> 160
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-017-Q1-K1-B12
<400> 51264

cccacgcgtc cgcccacgcg tccgcccacg cgtccgctca gctaccagcc ggagcccggc 60
gccaaagatgc tcgaccccgga ggtgtacccg cggccaccg gggaggtgta catatgtggg 120
atgagcaagg acgagaaccc gccagatgac ccagcaacga 160

<210> 51265
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B2

<400> 51265

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taccgagagg atgtccataa gagcaggatc ttctatatcc tatgggtcccc atcctccgcc 120
aagggtgaaga gcacgatgct ctatgcaagc tcatgccaac acacctgaca gtgccctcaa 180
tggcattcac gttgaacttc cggccacaga tgcgagggaa atcagcctag atgccatcac 240
cgatcgggca cgctaagcgc agcgaatcg ggagggccat gggtacgcat catggactcg 300
gctacta 307

<210> 51266
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B3

<400> 51266

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gcttttatcc aaggattggg ctgggcagcc atagaagagc taaaatgggg ggatgataac 120
cataagtgga ttgcacctgg acacctcttc acctgcggtc ctggttctta caaaatacc 180
tctgtaaag atatacctct gaatttcaag gtttctctat taaaggggtg tccaaatcca 240
aaggctattc attcttccaa agccgtggga gagccaccat ttttc 285

<210> 51267
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B4

<400> 51267

tcgaaggggc caatcgggtc tgactgtcag cacgctggac atagggataa gattgttgac 60
ttccactgga attcgtcaga tccttggaact aacgtgacac cttgtcatgc tagcgagagc 120

actggtggag gtggaacact gcatattcgg cgcattgagt atttgatct 169

<210> 51268
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B5

<400> 51268

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cagtacagag agagagagag agagagagag agagagagag cccttgctcg ttcgttcacc 120
accacagctt cgatcgatcc gcaaggcacg caagatgtac aacgcgccgt ctgcccata 180
gatgtcctac ttggagcacg tgcattaggct ccactattag aagggtctgc tatacgcctg 240
catcttcact gctctgtgct gcttctactg ctaccagacc tgctagtgt 290

<210> 51269
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B6

<400> 51269

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agcgctgcaa gaacaccaga gcagaacaaa caggcatgca aggaagcgga caccaaaagg 120
ca 122

<210> 51270
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B7

<400> 51270

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caccgagcct ggactaccgc cgccgccctt cgccgatatc ttcagcggct aacagcgccc 120
accagatccc gccctgcga tggagtccgt ggtgaaccgc aaggcatacc cgctggctga 180

tgcgagctg acgatgggta tcctcgatat cattcagcag gcctgcaact acaaacagct 240
 caagacggga gcgaatgaac cgacgtaaac cctgaatagg ggcata 286

<210> 51271
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B8

<400> 51271

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 acatgggtcc tgaagggcag tatatcacat tgcaggttct agtgaatatt ttggagcata 120
 ctgaatgcc a tgctgattat aacttgacac ctccggcaaac tattgagcca gtgataacct 180
 tactgaattc atctacacca gctgtacatg aattagctgc acaactacta tcacatcttc 240
 t 241

<210> 51272
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-017-Q1-K1-B9

<400> 51272

aatccaagat ctgaactccc tcaaattccc caaccggggc cctaattccct tccaaacgca 60
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 ctcatcctcc gatgcgggtg gcggtggcga ttctgaagac ggcgacttcg ccggctccca 180
 cctcctcgac cccaccgatc cgggccttcc caaccccacc acctcctccg ctaccggcct 240
 gccccacgcg atccctgcgg ccggtagcgg cggcgggccc gtcacctccg gcaacggcgg 300
 ggagcggcgg cccctgttcc agcgcctctg gaccgaggag gacgagatcg tgatcctccg 360
 cggcttcgcg gagttcaccg ncgcgcgcgg cacggcgctt gcg 403

<210> 51273
 <211> 314
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-C1

<400> 51273

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ccgctcttct gggggatcac cggcgacggc tgcgtcgctt tctccgacga catcgacatg 120

ctcaaaggct catgcggcaa gtcgtcgcg ccgttcccg aaggctgctt ctactccaac 180

gccctcggag ggctcaagtg ctacgagaac cccaagcaca aggtcaccgc tgttcccgac 240

gacgaagaag agatctgcgg tgccactttc aagggtgtgg aaggctctac tgtcctgacg 300

gcgctgcact gatc 314

<210> 51274

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-017-Q1-K1-C11

<400> 51274

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tccctgcgca gccccagat ccggcaccgc ccgctcctcg atccccgcac cccacgcccc 180

caggccggga ccggcggggg cgcgcgccgg gtaggaggag gagaagagga aggggtggat 240

ggcggcgcgc ccggcgaggg ccagggccga ctacgactac cttatcaagc tgctcctcat 300

tggagacagc ggtgttggca agagtgcct cctgttgcgg ttctctgatg gttccttcac 360

tacaagctnt attaccacaa ttggtattga ctttaagata cgaacgatag aattggatgg 420

caagc 425

<210> 51275

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H10

<400> 51275

gttgctagtg agaaagctgc attgcatatg tctggctatg atgggaagcg tgctcaaaac 60
caagaggagg agactagact ggcaattcct ggctatgtga ctccattgaa agctggagag 120
gttatggaat caaccgaagg aatgatgaac aatgaactgt tggcgtagc tctgcagat 180
ggaagcatgt atagggagga ggatggattt ctgccacagt ggtttagtga aacaatgtct 240
ggccccctgc tgagctcagg aatgtgcaact gaagttttcc agttcgatgt gtccccatca 300
tcagctcatc caaatggcat cattcctgtc tattccaatg ccatgtcaaa ctcgtcacag 360
aacttcactc aagatcttca tctgctcgt gttcg 395

<210> 51276

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H11

<400> 51276

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cagtgcgact attggcagtt gagggttgtg ctgctcttgg gaagttgttg gagccccaag 120
attgtgcagc acatattctc ccagttattg taaatttctc tcaggataaa tcttggcgtg 180
tgcgctatat ggtggcaaat caactgtatg aactatgtga agctgttgggt actgaaccca 240
caaggggtga tctggtgtca gcgtatgttc gccttctctg tgacaatgag gctgaagtgc 300
ggattgcagc tgctggaaaa gttacaaaat tctgcaaaat attaaaccca caaattgcaa 360
ttgaacatat tcttccgtgt atcaaggaat tatcatcaga ttcatctcag catgttcgtt 420
cagctttggc atc 433

<210> 51277

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H12

<400> 51277

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gatggcgact gtaggcagtg gagggtcgtg ctgcatttgc gaactgggta aaacgcccg 120

attgttcagc acatatgctc tcagatattg actggtgctg tcaggataaa ccgtggcgct 180
 ggtgctatat gatgtgacgt cgattctgtg aactatgtga agctattggg actgaacca 240
 cacggggaga cctgatgtga acttgtgctg gggttgtcta tggcagaaaa gctgacgtgc 300
 caataggatc ttgtggaaaa ggtcatgat gatgcttatt attcagcaca taacttggaa 360
 ccgagcatat actgtcatgc tgcaatggat ta 392

<210> 51278

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H2

<400> 51278

ggagcacaac acaacaccct agaacagtag tgtgatatgt agctcaatag gttggttgg 60
 tgggtatcac aagagcaggg gtagagacac agagagctaa aagaacatta ttggacgcga 120
 gggagcagag tagaactgta gaaggagtg gtgtacgtgc gctagactgc cagtggcagc 180
 tgctgcaagc tagctaaggt gaaggatgga tatcgagtct aggcaagttt ccaaagggga 240
 cgccatagct gctgctgtct ctgttgactg gaagggaagg ccctgcgacc ccctcaagca 300
 cggcggcatg aaagccgcgg tcttcgtcct agggatccag gcgttcgaaa tgat 354

<210> 51279

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H3

<400> 51279

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 cggtggtgga ggcggaggag gatctggtgg tggcggcggc ggcggcggtg ggacgagcgg 120
 tcgttgcccc gtggacgcgc tgaagctggg cgtgtgcgcc aacttgctga acgggctgat 180
 caacgcgacc ctggggacgc cgtccaggac gccgtgctgc acgctgatcc aggggctggc 240
 ggacctggag gcggcggtgt gcctctgcac cgtcctcagg gccaacgtcc tgtgcatcaa 300
 cctcaacctg cccatcaacc tcagcctcct cgtcaactac tgcggcaggc gcgtcccatc 360

gggcttccag tgcttctgat atatatgggtg tagtattata tatgtccatg catgcaatgc 420
atctcgtcgt ccatcacatg 440

<210> 51280
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H4

<400> 51280

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atggctgggtt atagacctga aatgggtaat gtaaataatt tccatatgca ccctcgccag 120
cccaactatg gagaatttgg attgatgatg ccaggcccat caagtccata agtgaggggc 180
aatcatccag aggcgttcga aaggttgatc cagatggata tgtcatccag atcgaagcaa 240
cagcaggtgc accaccctgc aatggccgct ggccgtgtgc ctagtgggat gtacgggcac 300
gagcttgatg cgaaattgag atacagatga tggatgcttg gatgcttcac tccgta 356

<210> 51281
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H5

<400> 51281

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gaaaggcgcg gagcaagatg tcgtggcagg cgtacgtcga cgagcacctg atgtgcgaga 120
tcgaaggaca gcatctcagc gccgccgcca tcgtcgggtca cgacggcagc gtttgggcgc 180
agtccgagag cttccccgag ttaaagcctg aggagggtgc tggatcata aaggactttg 240
atgaacctgg tactcttgca ccaactgggtc ttttcgttgg aggtacaaag tacatgggtga 300
tccaagggtga acctggagtt gtcatccgag gaaagaaggg cactgggggc attactatca 360
agaaaaccgg catgtccttg attattgggtg tctacgacga gccaatgact ccagggaat 420
gcaacatggt ggtggagagg ctcgg 445

<210> 51282
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H6

 <400> 51282

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 cttagccact ctgcgcgtcg cgcgctcggc agggcagcgg ttgctccttg ccttcaaggc 120
 cgcccccttg gcggttcttt tccttcgcgg cggccggcctt cctttgcaag gcgtgttcct 180
 aatcgggggg cctcgcgggtg tcgccctcta atagccgcgc gcgttcgcac atataaccca 240
 gcgccaaacc cagggaacga gatctagagt ctaaactcac acacagggtg cactgagaca 300
 tac 303

<210> 51283
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H7

 <400> 51283

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 gcttcgccac tctcgcgcgc gcgcgctcgg cagggcagcg gttgctcctt gcctgcaagg 120
 ccgaccgctc gccgctcctc tccctccgcg gcgccgcct ccttcgcag ggcgtctcct 180
 tatctggggg cctcgcggcg tcgccctctc atagccgcgc gcgcttcgcc acatcagcca 240
 gcgccgaacc caaggaagca gaacttcagt ctaaaatcac aaacacgggtg tactttgaca 300
 taagcattgg gaaccctgtg ggcaagaatg ttgggaggat cgtcatcggc ttgtacgggtg 360
 atgatgttcc acagacaaca gagaacttcc gtgctctttg cactggagag aaagggtttg 420
 gata 424

<210> 51284
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-H9

<400> 51284

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gcggttgaat cccttgtctt cgcccccttc ttcgccgcc atggtggcat tctcttcaaa 120

tggctctaag ccagcgagag acgcaggata aaggccgtag ttttgcaagg cgagtagagc 180

agtatgtcag taatacagca tctatggcat gtgcttttgc tcgtccagtt catgagcccc 240

gttgtgtatt tggtttccgc tttcttgggt ggagttttta gttccaaggt ccgatcatgt 300

tttgatccca taaattctct tccagccttc gagcaactga gtccatcttc ctaagtcctc 360

agccccagcg agacattgaa gcatggggaa acttaaacag tatggtgatg attaattctca 420

gcattttttg tcttgca 437

<210> 51285

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A1

<400> 51285

gggacttgta aatgttgggc gattgattaa gctgggcttt caaggtatca tttgcgggcg 60

ctatttgagt tcaggaaca actcattttt cttcaggaga ggcaggtgca cacatctact 120

tttttttttc aaatgaaaca tatgacctta aatttgaagg attatctact atctagttaa 180

acataaactc tcatgaatgt aaatgaaaag ggataacctc acatttgtca cacacacata 240

cgtaggcata aaatattgct aaacttagaa gacatatgga tgattgaatt cactacttta 300

tttttttaca gaca 314

<210> 51286

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A10

<400> 51286

cgagcacatt caatagacat actgtctgaa gtgctcactg ctctgcaaga attaaatggt 60

tactgcaaaa agataggta ctataacatg aagtgcataat ggagtcctgg ctttctgct 120

cacattcata acaatcataa cttcatggca aggtccattg aaactgatag cctcagtcag 180
 aggtataagt gctaattaac cttgaaattc acgtgtgcac cacaagagac gcgatatacc 240
 tctctgattt gcaaagagtc agggagcctc agctcctatt tatggactcg tgcacgggct 300
 ttctaactac act 313

<210> 51287
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A11

<400> 51287

cggacacgtg ggaaaaagga aaaccaacca ccactcgcac caccctccgc ctccgcctgc 60
 gccacagctg ccgattcgaa agccctcgtc ctgaccctc gcaaaaccct agctccaacc 120
 accatgaagg gcaaggccaa cgcctccaag aaggatgagg ccaggctccg ggccggcggc 180
 ggcgggcgccg gaaagcgcaa gaaggccgtc gcgagcggca agccaagcg ccctccctcc 240
 gccttcttcg tcttcatgtc tgaattcagg caggagtacc aggcgcagca ccctggcaac 300
 aagagcgttg cggccgtgag caaggcagca ggggaaaagt ggcgctctat gtcagagcat 360
 gagaagcaac cctatgtgga ccaaagctgg cagaagaagc acgac 405

<210> 51288
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A12

<400> 51288

gtggtgaagg tgtctatgta caggcatcta cccttgggtc tttggaagct ctactgagt 60
 tcttgaagag ccctgctgtg aatattccct tctgtgattt cagtataggg ccagtgcata 120
 agaaggatgt tatgaaggct agtgtcatgc ttgagagaaa gaaagaatat gcaactatct 180
 tggcctttga tgtcaaagtg atgcctgatg cccgcgatct cgcagaagag ttcggtgtga 240
 ggatctttgc ggcagatata atataccatc tggttgatca attcacagca tacattaaga 300
 acctgacggt agagacgcag aatgaaagcg cttgacaagc tgcgttacct cgtggtctta 360

agattatgc

369

<210> 51289

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A2

<400> 51289

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cctctgcaac tacggccccg cctcctcac cggcggcggc accactctcg ccgcgctcgc 120

tgtcctgctc ctcttccact ttctgcttgc tatgctttta tggagttatt tttctgtggg 180

gctcactgac cctggttctg ttccacaaaa ttggaatctt gattttgatg cgcagagggg 240

agaaactgct cctctcacta gctcagagtt cagtagcccc atg 283

<210> 51290

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G9

<400> 51290

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ggagagcctc tcacggtctt cgagcttcac gacgacggc acattgacct tactgtcatt 120

ggccacacc ttgaggcagg ccagcgcgcc cagtataccg tgccaccgaa cgtgtggttt 180

gggtcgttcc ccacactaga cgtcgagtcg ttcgcatctg atggcagcgt tcttgtcaag 240

tctcggaaga gggaccctga gctgcattac tcccttggtg gctgcacctg tgcccctggc 300

ttccagtacg aggattttga aatggccaaa tttgaggacg tgagatccat cgctcccaag 360

gctgaacctt tcctcaagtt tcttattccc tctaccgatt aac 403

<210> 51291

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F4

<400> 51291

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agataaaaagc actaaggacg aggtttcagt tgtcaaaaag agtccaaaat gaggaagtgc 120
ccatggcaga ggaagctctg gcgatgatat cacaatcatt taggcaggtc gttcttgatg 180
tgaaagttgg acccccttca tttgagaaag gtttagctga cgatattttg tctcttctca 240
ggagaacaaa ttgcaagaat tgtcttgtct gggcaaaaag tgatgatata ggaagagaga 300
taattaaatt gtctaaagat gttattgttg gctatgttgt catggtggat aaatttacca 360
atagaagaac ggagttagtg aggattgaag gggctaaagt tgctggcata tatcatcctt 420
tgatccatg 429

<210> 51292

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F5

<400> 51292

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cctcgccgat cgatacgatg gccgtcttct ccgacctcca caccgccgac ggcctcaagt 120
ccctcgaggc tcacctgcc ggcaaaacct atgtgtctgg tgactccatt actaaggatg 180
acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagtctcct aatgccgtcc 240
gctggtacga gaccgtctct gcggctgtag cctcaagatt ccctggtaag gctgttggtg 300
taaattctgcc tgcgggatca gctcctgcgg cagctgctcc tgcggatgag gctgaggacg 360
atgatgacct tgatcttttt ggtgatgaaa ctgaggagga caagaaggca gctgatgag 419

<210> 51293

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-F6

<400> 51293

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 ctcgctctgtc caccgctgac cgctcgtttg tcagcctagc accgggggtgc atgaacgccc 120
 agtatatgct acagcaccgc cgcacctggc cctgccgcct gcgcgggtcg ttgcctctgtg 180
 cactccgcgg gcctcgggaa tggccaacca ggacatttat cggtttgccc accctctcct 240
 gtcttctctt ctctcccgcc cgctctccct ctctcccttc tctccggctt ccgattgggt 300
 attgtttatt ggcttctggc ttttaattaat tactgtattt gcatgttcag gtatgttgct 360
 catccatctc gtatgatgaa gtgttttatg ctctnttcca attattgttg caagtagcat 420
 aattagaaca tg 432

<210> 51294

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F7

<400> 51294

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 cagtggcgac gttcctgcag gtgtaccgga agaagtcgac gggcgggttc agctcggtgc 120
 cgtacgtggt ggcgtcttcc agctcggtgc tgtggatctt ctacgcgctg gtgaagacca 180
 acttgaggcc gctgctgacc atcaacgcct tcagctgcag cgtggaggcg gcctacatag 240
 tcctctacct ggcgtacgcg ccgtgtcggg cgcgcctgct gactctggcc tacttgttcc 300
 tgctggacgt ggcggccttc gcgctcgtcg tcggcgtcac gctcttcgcc gttcgcgagc 360
 cccaccgcgt caagttcctc ggcagcgtct 390

<210> 51295

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G1

<400> 51295

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 ggaaggaatc tttgagggtca aggccacagc tggtcacacc catcttggtg gtgaggactt 120

tgacaacagg atggtcaacc acttcgtcca ggagttcaag aggaagaaca agaaggatat 180
 cactggcaac cccagggctc tccggaggct gaggaccgct tgtgagaggg cgaagaggac 240
 tctgtcttcc actgcccaga ccacgattga gattgactcg ctgtatgagg gcatcgactt 300
 ctactccacc atcaccctg ccagggttga ggagctcaac atggacctgt tcaggaagtg 360
 catggagcct gttgagaagt gcctgagggg tgccaagatg gacaagagca ccgtccatga 420
 cgttgtactt gttggtggct ccacta 446

<210> 51296

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G10

<400> 51296

cccacgcgtc cgggggcact agagcatgag tccccctgga gatcaatttc atggtggggtt 60
 ttttttgcca agttccatct tctattttca atttgattag ggctagtttg ggaacttatt 120
 cttccaaggt ttcctaagga aaattagttc attttttttt ttgggaaaat gaagtttcca 180
 aaagggtttc aaatccatgg tgggtgtggga attgattgca gtaaaggcga tgggtaagct 240
 gataccggtg ggttgagaat tagaccatca gtagcttact ctttcccata tttaaactat 300
 aatctacact acaaaaatagt gcaaaaagggtg ttcatagtga cctatgaata atataatcta 360
 cactacaaaa atagtccaaa aggtgtttgt agtgaccata tatgggtgta cattgtacct 420
 ttttacattg tatttgta 438

<210> 51297

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G11

<400> 51297

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 gaaaaatgca aaataaaata taataaaata aaaatcaaat taaggactaa aacgggaact 120
 tattcttcca aggtttccta aagaacatta gttcatatat ttttttggga aaatgaagtt 180

tccaaaaggg tttcaaatcc atggtggtgt gcgaattgat tgcagtaaag gcgatgggta 240
agctgatacc agtgggttga gaattagacc atcagtagct tactctttcc catattttaa 300
ctataatcta cactacaaaa tagtgcaaaa ggtgttcata gtgacctatg aataatataa 360
tctacactac aaatatagtc caaaatgtgt ttgtagtgac catatatggg tgaacattg 419

<210> 51298

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G12

<400> 51298

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggagaacg 120
aaaagaagga accgaagcta tagtgcaaat gaatgcaaat taatagagcg ggaaaaagag 180
aaataaaaaat aaaggaaaaa aggcagacgt ggcaaaacta aaaggatggg gaaaaccatg 240
cgggtaccaa aataaaggga aataggagaa aaggcccata tggatagtag gcgaaa 296

<210> 51299

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G2

<400> 51299

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aggctgatgg cgtaaagggtg aaccgcaact tctcaaacgg cactcctcca aacagaacgc 120
tctcaatcag tggccaacac aacggtggtg gccatggcgt caggtctgga gggaaggatt 180
gcatgacaga cacggcgaat acagcatctt caggaacaa tgcagatata gctgctcctg 240
tggacgcggt cttccaaatt actgtcaccg atccggtttc gagctcacca tgatctttaa 300
ccta 304

<210> 51300

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G4

<400> 51300

aaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa 60

aaaagcaaaa actaaaaaaaa aaaataaaaa aaataaatac ataataaata acactaacta 120

taattttctc aaaaaatata caccctaaat taaacat 157

<210> 51301

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G5

<400> 51301

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cagttaaagt tttgtagtgc tgtctgtcag ttgctgcctc aaacttggaa tactacttct 120

gtttggcacc tgaactgctt atcaaaaact ttatgtatac cagttacatt ccacttttta 180

ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaataaataa 300

taaaaaaatt aaaaatatta taataaaata aaaataatat aaatataatt taaaaaataa 360

aaggggggggt tttttta 377

<210> 51302

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G6

<400> 51302

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cctgcattgc ccttcagga ataccacct ggaataacac ttgtacctat gaagagtagg 120

acactagcgc cattccgtac aactaatctt gtggtagtaa gatcaaccaa tgggtgctggt 180

ggatctacat gttctgattt ttttgcttcg ggggaagctc tgcttataga tcccggatgc 240

agctctcagg ttcatgcaga gcttgcagat ctcatcgatt ccttccaaa aagggttatta 300
 gttcttgtta cacattatca tcaggatcac attgagggtc tttcagtcgt tcagagatgc 360
 aatcctaattg ctgttcttct gacacaccaa agtacaatgg atcgcatcgg gaaaggaact 420
 tggcagattg actacacttc 440

<210> 51303

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G7

<400> 51303

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 tatttagctg ggtatctatt ggaacagagt ttgacggcgg acaatctctt tgatagtgtt 120
 ctggtcttca agtatttcaa agcgccaaaa gaataccaga atcgaatact ttcttatggg 180
 atagctggag ctgtggtctt tcgggctgtg atgatcatct tatgaacagc tagcattcag 240
 aaatttgagg cggatgaactt gctgctggct gtgatcctgt tattcacttc ttacaagcta 300
 tttgctgaac aagaacacga atctgatcta tccgataact tcattgcgaa aacatgccaa 360
 aagttcattc cagtcactga atattatgac gacgatcggg tttcacagat caggaccggt 420
 tatggaaagc 430

<210> 51304

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G8

<400> 51304

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 aagattgtgg acttcatcaa gtttgatgtt ggcaacgtcg tcatgggtgac tggcggaagg 120
 aacactggcc gcgtgggtgt tatcaagaac aggggtgaagc acaagggcag ctttgagacc 180
 attcacgtgg aggactccct gggccaccag ttcgccaccc gtatgggcaa cgtgttcacc 240
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atcatagaag agcaaaggaa gcgggatgcc gatgcccattg ctgctgccaac cgcatcaatc 360
ctctgaatgt gctgagttga gagttttttc tagttgcttt gcatggttat agaacaatgt 420
tctaagacta ccatgtcttt aag 443

<210> 51305
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-016-Q1-K1-F3

<400> 51305

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agaccatccg ccacatgatc gaggatgact ggcgcgacaa cggatatccct cttcctaacg 180
tcaactccaa gatcctatcc aaggtaatcg agtactgcaa caagcacgta catgccgncg 240
ncgncggcgn cgccgtctcg aaggccgggt cgcacgacgt ggggtgccgcc tccgccaaca 300
gcaccgacgc ctccggtgag gacctcaaga actgggatgc ggacttcgtc aaggctcgacc 360
aggccacgct ttctgacctc atcttggtcg caaactatct gaacatcaag ggtctgctcg 420
acctgacctg tcagactggt gctgaca 447

<210> 51306
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E10

<400> 51306

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taataatagg tgaagacttg caactctctg tacggctcgca atcacatcta tgcagctatg 180
gttctgaaag tgatcaagag attgccaaat ccatgctttc tgactgcatg acagatgtcg 240
agattaacga tcatcgagtg cttgatgata ttgcctctgc actgtctaata ttcacgcaga 300
tgggtcaagga tgtaatagtc aacgatctga ctgagttggt cagcctgaa gagatgcctc 360

tgtttggctc gaattcagca cttgactggg ccaacttcaa tgcacaagca tattctgatg 420
aat 423

<210> 51307
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E11

<400> 51307

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agccaacagc taggcaggta gtagtagtat acatgagcag gttcgcgggg cagacgtcca 180
ccaggccgtg ggtggggatg gcgggctctg gcgccaccgc gtccgagcct gccgccgcgcg 240
acgtcgcgag ggacgacgcc acggcagcca tgagggggcg cggtgccggc gccggcacca 300
acgccagcgc catctacttc ggcttcgcgg ccacggcggt cctcgtctgc atgttcctcc 360
tcatgggcat cttagagcac ctcacaaagc cc 392

<210> 51308
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E2

<400> 51308

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ggtgcatgat gaaactccga ctacgatgac agcttcctga gggccctggc atgccggcaa 180
gctgtacagc ttaaacaggt cgatcgtgac gacacgtacc tgggtactgaa tcaggggtgc 240
catctgtccg aagtacaacg tactcgacac acagggactg atcaagacca ctgtcagaag 300
aatcatcgag tggctcaaat gcaaggttta cgacgacctc tactgtggac tatcaactga 360
tctgattaac gcgagactac tgaat 385

<210> 51309
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-E3

 <400> 51309

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 taggagacgg cggagctgct gccgcggcgg cgtccaacaa cctggtggtg tcgttcggcg 180
 agatgctgat cgacttcgtc cccgacgtgg cggggtgtc gctggccgag tcggggcggt 240
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 gatcctccgc ctctgtaggc aagttcggcg acgacgagtt cgggcacatg ctggtgaaca 360
 tcctgaagca gaacaacgtg aacgcggagg ggtgcctgtt cgacaagcac gcgcggacgg 420
 cgctggcctt cgtgacgctc aagcac 446

<210> 51310
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-E4

 <400> 51310

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 ctctaggaga cggcggagct gctgccgcgg cggcgtccaa caacctggtg gtgtcattcg 180
 gcgagatgct gatcgacttc gtccccaacg tggacaggct gtcgctggcc gagtcgggcg 240
 gcttggtcaa ggcacccggt tgcgcagcct gccaacgtag cctgcagcat cgccaagctc 300
 ggcggatcca tacgcttcgc aggcaagttc ggcgacgaca agttcgggca catgct 356

<210> 51311
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-E5

<400> 51311

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aaagatggag agctggcttc ttacatgtca cgcttggcct cattggaatc tattcggaat 180
tcactagcag aggagttggt aaaactgaca gaacaatgtg aaaagttacg gactgaagcc 240
actgctgtgc ctggcttaag ggctgaattg gaagctctga aacaaaggca ctttcaagct 300
ctagaactca tgggggaacg tgatgaagag ttggaggagc taagaaatga tattgttgac 360
ttaaagaga tgtacagaga gcatgtggat cttcttggtta gccagctcca gtcattgngt 420
gctcgtgtat agcgctgcct gc 442

<210> 51312

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E6

<400> 51312

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ccaaaaatat taaggcttca gatccactct aagagggctg caggcttggg ccagttgtta 120
gtgaatgaca agctgagaag attcatatgt tgatatcgaa tgccaaaagc catgggtgcta 180
ctattctgac tggaggtggt agacctgcac atctagtga ggggtctct atcgagacca 240
actatgatta ctgatcac c 261

<210> 51313

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E7

<400> 51313

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aagaagagga tcaaagagat cgtcgaagga caggcagcgg tgcaccactg cagtgccagc 120

gtggacttca tggaggacac gatgaagccg taccgggccg tggccaacga cgaagggatg 180
 tacgctcacg ccaaggaggt ggccgagggc ctccttgggg agaagaacgt caggggtgggt 240
 ccccaggtga tgggcgcgga ggacttcggg ttctacgcgc agaggatggc gggcgccttc 300
 ttcaccatcg gggtcggcaa cgcgagcacc atggcgacca tccattccac ccaactcgct 360
 cacttcgtcg tcgacgagga cgtgcttccc gtcggagctg cgttccatgc tgctgtggcg 420
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<210> 51314

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E8

<400> 51314

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 cgtcttcgcc atcgtacaga tcggctcgca tcaattcaag gtgagcaatg gcgactcaat 180
 cttcacggag aggttgaagt tctgtgatgt gaacgacaag ttgttcttga accgagttct 240
 catgcttggt tcacaaactc aaacagttat tgggaggcca atactacctg atgctgctgt 300
 tcatgctgtt gtggaagagc atgccttaga tgcaaaagtg atcatattca agaagaaacg 360
 gagaaaaaat taccgacgga caaagggcca tcgtcaggag ttgacaaaac tgagaataat 420
 caacattgaa agaatagat 439

<210> 51315

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-E9

<400> 51315

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 tcgacggcgg ggtacctggc gcggcgggag gcgcagaagg agcgggtgag cctgctctac 120
 cgagggcgcg tcaaggacac gctcaactgg gccgtccacc gccacctctt ctaccaggac 180

gcgtcggatc tccgggacaa gttcgaggcc aaccgacacg tggataacct ggacgtggtc 240
gataggctca ttgacgatgc ggaggctcag tacaggaact tccagcaccg cgatccctac 300
attgttccat gggcaccagg cggcactaaa ttcacaagaa acccccctcc acctcaaggg 360
atcgagatca tctacaatta tggcaaggag gaccagtaaa caagagtcct gcaag 415

<210> 51316

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F1

<400> 51316

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aaagcgatgt gcagcgtggg cgaactgata tgagatctac tgggaagcag atacaatctc 120
ttatagggtc catttacaaa gcagaatcta cctgtgttct tgggcgtacg cggacacagc 180
cccgatccga atcgtcgtcc ttgcgagcct cgcgatccc cactccccct cccctcgtt 240
caagatgcag atctttgtga agaccctcac cggcaagact atcacctcag aggtggagtc 300
ttctgacacc attgacaatg tcaaggctaa gatccaggac aaggagggca tccctcctga 360
ccagcagcgg cttatcttcg ccggcaagca gcttgaggac ggacgcacac ttgctgacta 420
caacatccag aaggagtc 438

<210> 51317

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-F2

<400> 51317

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gcgacggcaa caacctgaac tctctcgcca tctcagagt ctcgagagcg gttcctccgc 120
agtcgaaatg gagcgtgaca gtggcctctg ctcgtctctg tctgtagtag cataccaata 180
atactactcg cgaactctct ttctgagcaa acagattcca t 221

<210> 51318

<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C5

<400> 51318

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgaa g 51

<210> 51319
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C7

<400> 51319

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cccgacccgc ggcgctggag cgcgacctgg gcagggtgga cggcgacaac gcggtgctgc 120
gcgcccgcga cgccgagctg gccggccgcc tgcagtcgct gggcggcgtc ctcgaggtgc 180
tccagatggc cggcgccgcc gtcgacatcc cggagatggc caccgacgac cccatgctcc 240
gcccctggca gccgtccttc cccccgatgc agcccatcgg gttctgagaa tctgagcctc 300
agccggcgagg agagagccaa tttctgtcgt cgtgccgctg tctatctcgt attggtatat 360
ctattcataa atcatccttg tcatggtttg ctcttcttgt cagtgttata aatttgcttc 420
ttgttagtgt tataaat 437

<210> 51320
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C8

<400> 51320

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gtatcctgaa atagacgaga gtgattttag aaagggtgcc cagtggtttg cagttacgag 180
gagacatgct ttaatgattc tggctgacag cctgtactac aagaagttca agctatactg 240

caagccagca gaagggcgca actgtattgc agatgagcat tatttgccaa cgctgttcaa 300
 tatggtagat cctggtggca tctccaattg gtctgttaca catgtggatt ggtccgaggg 360
 aaaatggcat ccaaggtcat atagtgtga cgatgtcact tatgatctct tgaagaatat 420
 tacaacaact gatgagaact tcca 444

<210> 51321
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-016-Q1-K1-D1
 <400> 51321

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 ggagctggtg gcggcgggca gccggacgcc gtcgcccaag acgaaggcgt cgcagctggt 180
 ggggcgcttc ctggccgcct ccgagccggc cgtgtccgtg cagctcggcg accacggcca 240
 cctcgcctac tcccacacca accaggcgt cctccgcccc aggtcgttcg cggccaagga 300
 cgaggtgttc tgctgttgc aggggggtgt ggacaacctg ggtcgtctga gccagcagca 360
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 gcgcgaccgt gcg 433

<210> 51322
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-016-Q1-K1-D11
 <400> 51322

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 gtcgcacgcg taccaccgcc gtgggctctg ggccatcaag gccaagaacg gcggcgtctt 180
 cccaaggcc gagaagccc cgcgccgcg ggaacccaag ttctacccc cgcacgacgt 240
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gcctgggacg gtgctgatcc tctcgcggg gcgcttcacg gggaagagag tgggtgttct 360
 caagcagctc aactccggcc tgctcctcgt ctctgggtcca ttcaagatca atggagtacc 420
 ga 422

<210> 51323
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-016-Q1-K1-D2
 <400> 51323

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 gagatcttag ggtgatggaa agagacgagc aatcgatgag caaggctctg gaggcacaga 180
 acaagaagct tgtgtcatt tcgaaccagg gcagcgtgtc cttgtctgca caagcggtac 240
 atgagcgagg ccctggcgct gaagccggtg gtagtctgca gacaggctctg aggaatatatt 300
 tcgaagcgat ggagaacttc acctctgcat ctgcaaatac gtacagggag ctccatcttc 360
 gcgccgaaga agagaaagcc cgggttgccg angagagcgg cagcgtttcc tagttccaca 420
 tgaggacatg agcatttgtc ggtggaaaga 450

<210> 51324
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-016-Q1-K1-D3
 <400> 51324

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 agcagcggcg gcaacaccgg tgacgccgac agaggggacg gtgatcgga tccacagcct 180
 ggaggagtgg agcatccaga tcgaggaggc caacagcgcc aagaagctgg tggtgattga 240
 cttcactgca acatggtgtt ctacgtgccg cgccatggct cccatttttg ctgatatggc 300
 caagaagtcc ccaaagtgtg atttctgaa agttgatgtc gatgaaatga ataccattgc 360

tgagcaattc agcgtagagg ccatgccaac attcctgttc atgagggagg gcgacgtcca 420
tgac 424

<210> 51325
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D4

<400> 51325

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tgttgctacc cctgtttcaa ttaccacatc gaccaccctt tctggtgctg caaggagcac 120
acctctgaga cctgtgagga tgtctcctgg ctcccatcag aaatacagca cgccacccaaa 180
aaaggggtgag ggtgaacttc caactccaat gtccttagag caagcagtgg aggcctttga 240
gaacttgggt gtatatcctg agattgagca gtggctagat agtctcaggc agtggttttc 300
ttcagttgtg atgaaccac ttgtacaaaa aatcaaaaca agccatactc aggctaagca 360
aacaacagct actggtgggg cttcagttac tgtagccaa gttggaagtg atctgccaag 420
cacaacacca ccagttgcct tgt 443

<210> 51326
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D5

<400> 51326

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ttttcgtttg gatcatctaa gatttgccat ggtaagtcag agtcgctggc tactttacaa 120
ccatgcttgg caatgataac tcatggcagc tttaggtgct cttctgcatt gcgttggtgg 180
gtttgccctt cgtggctctg ttagttttgg ttgtaggagt tggtttgtgg tctggtgcat 240
gaagtcggag ctgctaagcc tcggtgctaa gctcgacaac gatgacttga gccaggcttt 300
agaactgctg acgaggtgag tggagtagag caaaagtgtt gtgtggtcat ctgttgatgt 360
cccaatccaa ccagcccact tttgttgttt ctagtgtggt cgagtgttgt gtggcacatg 420

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439

<210> 51327

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D6

<400> 51327

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ttttgtagta aggggtgtgt acatcaaata cagcgtgttt aggatactgc tacatacatc 180
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actagagtgg gctgtattaa cacacactaa aaaaaaacgg aaagaaaagg aaagatgtac 360
tcgtggttgt tctgttgtaa aattatgtcc aaactggttt ttttttgtcg tgaaagctcg 420
tcagctcgtg t 431

<210> 51328

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-D7

<400> 51328

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accgccccgt catggcgatg ctatcccgcg cagcctctc cgcgggcccg cgcccgctgc 180
tgccgccgcc taggttctg gcggtgaggg cgatggcgtc gtcgctcttc ggccacgtcg 240
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ccgacaaagt gaacgtcggc gtcggcgctt accgggacga caacggccag cccgtcgtgc 360
tcagctgcgt gcgcgagggc gagcgccgga tcgcgggcaa cctcaacatg gagtaccttc 420
cgatgggagg cagcgtcaag at 442

<210> 51329
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-D8

 <400> 51329

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 gtaccgcccc gtcattggcg tgctatcccg cgcagcctcc tccgcggccc ggcgcccgtt 180
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 gtccgacaaa gtgaacgtcg gcgtcggcgc ctaccgggac gacaacggcc agcccgtcgt 360
 gctcagctgc gtgcgcgagg ccgagcgccg gatcgcggggc aacctcaaca tggagtacct 420
 ttcatgaggga ggcagcgtca agatga 446

<210> 51330
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C4

 <400> 51330

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 agaacaaatc acacaagaac aatctgctga ctgctataat atcttgacca atgactgcca 180
 ggaacatttg gctatgaagc acttcgtctt aataaatcaa ctggacttta aaggttgact 240
 acatgatcct aacatgtgac cctttgatct ctgtgacacc aaaaataagc ttaacaactt 300
 caaactatat g 311

<210> 51331
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A7

<400> 51331

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acaagtactt caagacaatg tccgcccgga agctcctgtc agttctgcag ttcgtcacag 180
cgctcgtaat gttgtcagat gtgttgttcg ttcagggagt atacaggaag gtgggaattc 240
cagactccat atacacgatt gtcttctcgg ggctgctcga gggccttatg tttttcaagg 300
tcctgccctt cagtgttcat gttgcaaaac tttgccctgc tggctgtgag ggatcagtga 360
tggcctttgt catgtctgcg cttgcccttg cgactatcgt cagtg 405

<210> 51332

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-A8

<400> 51332

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aaataatacc agacatgggt atggtggaaa acaacagggg aggaccactg ggacgacata 180
cctttccaga agatgaacca actttcactg ggcgatgatg ctgttggaaat tggaaaccat 240
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gatggtgaag atgacctgga ttaaagttat tctagattca ttttttattt tgcactattg 360
gtcttcacag agcctgtatg gttgngggcc ttgatttggc aaagctgtac tgatatatcc 420
ctaccccaag aatcagaagc ct 442

<210> 51333

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B2

<400> 51333

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ttggaatgtc gacaaatgcg gggatttgtg tgctgtcctc gcgcaccatg aagtcaccaa 120

ctccctaaca atcatcggct attctattct tcaaactgtc aatattctta tagcgggtca 180

tgtaccctat tctcatcatc catcgatgca tctcagcctc ttatgatata ttgtactgct 240

cactctgtctc ttcattggtta tgtgacacca ggctctttac 280

<210> 51334

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B4

<400> 51334

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ggtcgcacta aactgattt tcgctatcca acgatgtgac ccagctccat tttatctggt 120

cgacgagatc gatgctgtc tggatccaca ataccgaaca gcagttggaa gtatccttat 180

tgtttgttct agtgtctagc tatgcacatg atcaatgcct cttctttgtg tgtcaatagt 240

cctgctgctt tccttaagtt tcattccaga tatgatccgc cgtctagctg acatggctga 300

cactcagttc attgcgacca catttcggcc agagattgct aaagtggctt gatagatata 360

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<210> 51335

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B6

<400> 51335

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ggcggctgtg gctctggttg tgggtggttg tgcggcagcg gcatggctcat cgaatgtcc 180

aaggccaaca acaccatgtc cggcggatgc ggctacgggt gcggcggagg cggcggctgt 240
 ggtagcggca tggctatcga aggcttcaag gtcaaccacg ccaagtctgg tggctgcaac 300
 tctggctgcg gtggtggtgg ctgcagcacc ctgtgcagct ccagctc 347

<210> 51336
 <211> 164
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B8

<400> 51336

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 aaaaaaaaaa aaaaaaaaaa aaaaaaacaa aaaaaataat aaaaaaaaaa ataaaatcaa 120
 aaaaattcaa tttaaattgc cgtaaatta caacaataat acat 164

<210> 51337
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A6

<400> 51337

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 gcgacatctt taattggtgg cccgtcaaca ttagccactt ttgcggctgt gtatgcactc 180
 tttggaccaa ctttccttgg catatatgac aaagagaggg gaatttatac gctgttctac 240
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 gaagtggcag atttgccact ggaattccca gatggtacaa cccctgttac ttgtcggggt 360
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 atggtacctg cact 434

<210> 51338
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-C3

<400> 51338

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gagggtttctc atgagtgggtc attgggtcaac aagcagaagc ccatatggat gaggaagcca 120
gaagaaatca caaaagaaga atatgctgcc ttctataaga gcttgacaaa tgactggggag 180
gagcatctgg ctgtgaagca cttctctgtg gaggggtcaac tggagttcaa ggctgttctc 240
tttgttccta agagggcccc ctttgatctc tttgacacca agaagaagca aaacaacatc 300
aagctctatg tgcgcagggg gttcatcatg gacaactgcg aagagctgat ccctgagtgg 360
ctgagcttcg ttaaggggat tgttgactct gaggaccttc ccctcaatat ctctcgtgag 420
actcttcagc agaa 434

<210> 51339

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-H11

<400> 51339

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tcccgggaat ggagtgcgta ttgggcgtgg ttggccgcga cttcgcgctg gtggcggccg 120
acacctccgc cgtgcagagt attctcgtcc acaagaccga cgaggacaag gtgatgggtgc 180
tcgactcgca aaagctgatg ggcgcttcag gggagcctgg tgatcgggtg caatttacgg 240
agttcataca gaagaacctt cacctgtacc agttccggaa caccatcccc ctctcaaccg 300
ccgccgncgc caacttcaca cgcggcgaac tcgccacagc ctttcgcaag aatccatata 360
tgggtcaatat tattcttggg ggttatgata aggatggttg tgctttcctc tactacatcg 420
actacatt 428

<210> 51340

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H12

<400> 51340

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ggctggatcc atactagcta cctgaaggat ctgtggccag actcgcggta cacttacagg 120

cttggccaca ggctaataa tgggacccgc gtctggagca aatcatacag cttcagagca 180

tcacottacc ctggacaaga ttctttgcag cgagttgtca tatttggaga catgggaaag 240

gcagaggcag atgggttcaa tgagttcaac aacttccagc caggttcact gaatactacg 300

taccagatca cgagtgcacat agaaaacatc gacatggtgg tccacatcgg ggacatctgc 360

tacgcgaacg gctacttgtc tcagtgggat cagttcactg cacagatcg 409

<210> 51341

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H2

<400> 51341

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ccatgagcaa caaccggacg gggcgactgg acatcggcac ggattggcgc ctgcacggcg 120

tggcgcgcg ggtgctggcg cgctacctac gccgcgtgcc ggtgcacttc gtcgacatca 180

cggggctgtc ggagctgcgc aaggacgcgc acaccttcgt gcacacgctg cggcagggga 240

agctgctcac accggagcag caggccgacc ccaagaccta cgccgactgc atccactggt 300

gcctaccggg actccccgac acctggaacc actttctcta cgcgcac 347

<210> 51342

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H4

<400> 51342

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tccttggtct ctttagcata ggcattggga tggccaccgc tgctgcaaac cgcaaactgg 120

gttatggccc cgggggagga ggtggcggtg gtggtagcgg tggcggtgga ggcggtggtt 180

acggaggacc aggctatggg tccggatcag ggtatggtga gggcggcggc agcggagggtg 240
 ctgctggagg gtatggacat ggtggtggcg gacgcctcgg tcttggtgag ggtgcgggag 300
 ctggtggctc tgggtatggg tccgggcaag gatctggc 338

<210> 51343
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-H5
 <400> 51343

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 caacaagaag ctgcttggcc gggttcgtgc ttttgatcgc cactgtaaca tgggtgctcga 180
 gaacgtgcgg gagatgtgga cagaggctcc caagactggc aaggggcaaaa agaaggctct 240
 gcctgtgaac aaggatagat tcatcagcaa gatgttcctc acgggcgact cggtcatcat 300
 cgcgctgagg aacccaagt gacagcccaa ccggaagcca tgtctatgtt gaaaactgta 360
 gcttatgatg tatg 374

<210> 51344
 <211> 189
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-H6
 <400> 51344

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 gatgagtagc tcatgtgtcg tattcatagg ttaagtatat ataggtccta gtatataatt 120
 ttgccgcggc ggtcacatgt catgcatgga acttacttaa atgtgtctcg atttatttgt 180
 catctccct 189

<210> 51345
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-H8

<400> 51345

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ggactcgacc atcggcggtga cgctgctggg ccccgacggc acgggcatcc ggatccggga 120
cctggcgggg tggggcggcc tcatgggcgc cggccacgac tactacgagc gcggcaacct 180
ggacatcttc agcggccggg gccctgcat gagccaggcg ccctgcgcca tgaacctcac 240
ctccgacggc accggcgcg caccagggctg gtactgcaac tacctcgagg ccacgggtcac 300
ggggccccac ctcggtgctg cgcagcagct cttcaccgtc gagcagtggc tcgccaccga 360
cgctcgggcc taccgntgt acgcggctgt cgacaagtg 399

<210> 51346
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H9

<400> 51346

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gagtgtgcaa ccctggacgt attcctaaaa acaccacagg cgcaggcctg tgccgaggac 120
attgccatat ggatgaagaa atatatatcc ctacaggggc atgagttctc atattagttg 180
tagcaaaaac catgcattgt gaaataggcc ctttgcaggg aagcgtcaat gtgttctttt 240
caactggtgg aaagaaggat gttggattgc agtcgggtaa accagctagc ttaatgctga 300
gtactgagtc ctttagggcc tggtcggttt caccggaata gaccaagatt tattccagct 360
catcaaaatc tatataaatt agagaagtaa tccggctagg aatcaatccg aggctcaaat 420
ccataac 427

<210> 51347
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A12

<400> 51347

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acgcggaacct aatcaccatt gacaactcgc tgttctacaa gaagctgac tccaaattcc 120
tcgaggtcct caagtacatc gctttcatcg accttcgtgt ttacgacatt cactccccc 180
ctatcccgtc cgctgaggag atcgtttacc acatctacaa gatgctaacg gtgcttgaca 240
ccaacattct ctggg 255

<210> 51348

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A2

<400> 51348

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aggcgatgct gagacaaatg gaaatggaaa ccctgttcaa caaagacaac agagaaggaa 120
gcaatccaac cggaatcag ccaggcgctc gagaagcaga aaggcggtc acttgaatga 180
actggaggca caggtagcac aattaagagt cgaaaactct tcgctgctaa ggcggcttgc 240
tgatgttaac cagaagtcca atgaagctgc tgttgacaat agggtgctaa aggcagacgt 300
cgaaacctta agagcaaagg tgaagatggc agaggactcg gtgaagcggg taacaggcat 360
gaacgcattg taccctgccg tgcagatat gtcttgctc agcatgccat tcaatg 416

<210> 51349

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A3

<400> 51349

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aggattcaaa aagcaaaagc tgaggcagca attcagaagt taatgattaa gatggagaag 120
aaaggatcat ctctgctgga taagattttg aacacctca agtctgctca gagaaaagcc 180
caggtgatgc ttgagcatga gcttgatgca gtaacagcaa accaagatgg aaaaggctct 240

aggaaggcaa aaaagggagc acagcgtagc aagaatggcc aaatcagttc cctgagtggc 300
 tgcttcactt gccatgcttt ttgatacatg taattccaaa actgagaatc aggatctgag 360
 aaattccttc gtactgtcta catcacggtc atgtttctcca catcgaaatc taggtgaact 420
 tcagatatct atcagatgtc agtacat 447

<210> 51350

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A4

<400> 51350

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 taccttgcaa cttgataagg aagcagacaa ggaattcatg tccagcttgg cttcccttct 120
 taagactatt gaaagggcga tccagggttca tgaagatttc tcaggtgtcg tgaaccctgc 180
 agagttatta gaatgtcact tcacagggtt gaacgctctg gaaaatgaat atgggtctgg 240
 tgaaattggt aagcagggaa cagaaatagt tcagagagct gtcaccaa atccagtc 300
 cctacatgaa gcatacaaag ggaaacatgt tgggctggta atatccacaa atgacgtccc 360
 atcatcotta ggatccataa ttgacgcacc atcttactg cacatttcaa g 411

<210> 51351

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A5

<400> 51351

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 agggcctcct aaatccaatt taatgtccgc ccccttacia ctttatacct ttaaaaaatcc 180
 ctgacttact tcaaattaac tggcttgcac tacaccccac tttaattgga aaaaccctta 240
 cctaacccaa cttagtcgac cgactttcca aac 273

<210> 51352

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-H1

 <400> 51352

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 cccgctaaac ccaccatcac caccaccacc aaaacgaccc cggccccaag acccgcccgc 180
 tccgcccatt tccatgtcct ctccgccgtc cgttgccctc gcctccgcct ccgcgcgtcg 240
 tcgcagcatc ctccgccttc gccacccccg cggtcgcggc ggccggatta cgtcccgaac 300
 cgcacgacg accccaacta cgtgcgcac ttcgacacca cgctgcgcga cggggagcag 360
 tcgcggggcg ccaccatgac gagcgctcag aagctcgctg t 401

<210> 51353
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-F3

 <400> 51353

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 gaagaggaac cggggagcgg cagctgcagc ggccgagggc ggagcacgcg aggcattgat 120
 agataccaaa gggtagagaa gcctcggaat gacacgcca tccagccagaa tgagatcaga 180
 atcactactc aggggaggat gaggaactat atcagctatg ggatgtcgct gcttgaggaa 240
 aatggacatg atgagattag tatcaaggcc atgggacggg ccataaataa gacagttatg 300
 gttgttgaat tgatcaagag aagggttga ggtcttcac agaacactgc tactgaatct 360
 gttgatatca cagacacatg gggaaccttt ggaagaagg ctttttcca ctagagacaa 420
 ctgcacctgt gtcgatgatc 440

<210> 51354
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F4

<400> 51354

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gcgagtgtctc aaaacatgcg tgagctctat agattgggtc tagtcgatac accactggcc 120
ccttacttct cagagtgcac tacatctgag gatttggatg acatgaatat tgagattatg 180
aggaacactc tctacaaagc atatcttgag gacttctaca aattttgcca gaaactaggt 240
ggtgcaacag ctgatatcat gtgtgatctc ctttcatttg aagctgacag aagaactggt 300
aacattacaa taaatagtat tgggtactgac ttgacaagag atgaccgctt gaagctgtac 360
tccaactt 368

<210> 51355

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F5

<400> 51355

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ccaagggcgg caacgagcag gggggcaccc gcattctcgg cccctcccag aagttctcct 120
cccgcgacct cgccgcgcac acctccctca agccaagaaa agacggtcaa cagacccaag 180
aggagttaca gaagaggaat ctacgggagg aacttgagga acgtgagcgc aagcactact 240
cttccaagga taagtcctat gccgaagaaa gagaccggcg gaaaagctct agccatctac 300
tcttagaagg ttcaaagaga gagacagagg ataagatagt tccacgagaa atcgatgctg 360
atgactccga tgtggagcct aaaagcgatg acgagagcga tgaagatgat gatgacgacg 420
aactgaagc tctaata 437

<210> 51356

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F6

<400> 51356

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gctagctagg tggtcctcga acgaagatgt tggcggtgtt cagcgggcag gtggtggagg 120
tgccggcgga gctggtggcg gcgggcagcc ggacgccgtc gcccaagacg aaggcgctgc 180
agctggtggg gcgcttcctg gccgcctccg agccggccgt gtccgtgcag ctccggcgacc 240
acggccacct cgctactcc cacaccaacc aggcgctcct ccgccccagg tcgttcgagg 300
ccaaggacga ggtgttctgc ctgttcgagg ggggtgctgga caacctgtgt cgtctgagcc 360
agcagcacgg gctgtcaagc aagggtcca acgaggtg 398

<210> 51357

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-F8

<400> 51357

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cagatggcgg cgatagcggc ggccaccacg gcggcggcga cggtgctact gctcgcggcg 120
ctggtgctgg cggcgggacc gggcggggcg cgggcgcagt cggcgtcgcc gtcgagccag 180
tgcacgtcgg cgctggtgag cctgtcgccg tgcctcagct acatctccgg gaacgtgtcg 240
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ctgtgcgtgg cgctcagcgc ggacccggcg tcgctgggcc tcaccgtcaa ccgcacccgc 360
gcgctgggcc tncccgacgc atgcaaggct acgacgcccg acgtcagcag ctgc 414

<210> 51358

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F9

<400> 51358

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gtggagactt tgacggatct ttgcctgctt ttctatgcga tgtaagctgc tgaaacctgc 120
actcatcaaa tggtgtgtat gcagatggta ccatgcattt gtttccctga atggcttcaa 180

atgaaatgaa tgtttttttt aaaaatataa actgaactat gtggaagtac acatatcaca 240
aacacaagag atgctaaagc atttgactc ttatctgacg aggggtattgc aaaaggagtt 300
aggaggataa cagtcgtgac tgctggatgt gccacccagg ctatggagtt ggcataatct 360
atcgattctg atatcaataa agcatcttag ttggagggag ctttgtttga aaagaaaatt 420
gc 422

<210> 51359
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G1

<400> 51359

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aaaaaaaaa ataaaaaaaaa taaaaaaaaa aaaaaaaaaa aataaaataa aataaaaaaa 120
aatcacaaaa aaaaattata aataacatac aattaaaaaa aaata 165

<210> 51360
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-015-Q1-K1-G10

<400> 51360

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cggctgtctc gcccctcact ccagccagac ctggccgctc tgctccgctt cgaccacgc 180
gacgtcttcc tccctgagga cgcgctcacc ggctccgacc cgtccgctgc cgccaaattc 240
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cgcgaccgct tcctctctcg cgaccagcc gacgcgctcg ctctgccggg cctnctcgtc 360
ctnccccagn tcgtcgggtgc gatctatctg ggcgagacct tctgcaggta catcagcatc 420
aacaatagc 429

<210> 51361
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G2

<400> 51361

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agggactaca agcaatctgg tattattccg ctgcttgatc ttgcacagca gcagcatggt 120
ggatgggtgc cagttgcagc aatggatgct attgctaaaa tcgtcgaagt tgcaccaatc 180
atggtttatg aagttgcaac cttttatacc atgtttaaca agactaaggt tggtaaatac 240
caccttctgg tgtgtggaac tacaccttgt atgattcgtg gttcacgtga aatcgaagag 300
acgacgttgg agcaccttgg agttaaacga aatgaggtga ccagtgatgg tttatcttct 360
gttggagaaa tggaatgcat gggtagctgt gtgaatgctc ctatgattgc tgaggcttac 420
tac 423

<210> 51362
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G3

<400> 51362

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tgagccagct aaaggaaatg attccttgga tttgtggatt accagcaact tcaaggaatc 120
taaaagcaat gatgttggga gaactaatgc ctcatctgat ggatggcagg attttgccag 180
ttttgatcaa gctcagagaa ttactaaagt tcatgtggaa ggacatgttg taaaagatcc 240
ttcaggggct gaaactttgg acttatgggc ctcaagtcac gttaatgaaa agaaccttga 300
acagataagt gaacataatg atctattcga tgactggcag gatttccaaa actccaatcc 360
acagcataca accttacaag tttcttcaaa tgcttcatta tttgatataa ccttggcatc 420
aaagcctgat gcttttggag agcaagaaat t 451

<210> 51363

<211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G4

 <400> 51363

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 actggcaggc tacaattatg ggtccatctg atagcccata ttctgtagga gctttactag 180
 gcacaatcca tattgctcct gattattctt tcaaaccacc aaatgtggca ttcaacacta 240
 tagcgttcca ttcaaacttt aactgcatcg ggagcatttg ac 282

<210> 51364
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G6

 <400> 51364

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 aagtcagact accaaagcgt tatggctctt cagtcctcta cgtacgggaa ggtgctcgtc 180
 ctcgatggag ttattcaggt gacggagagg gatgagtgtg cgtaccaaga gatgatcact 240
 cacctgcccc tttgctccat caaagacccc aagaagggtg tggttattgg aggggggtgac 300
 ggtggtgttc tgcgtgaggt ttcacggcat tcctctgtgg aacaaattga catctgtgaa 360
 attgacaaga tggtggtaga tgtctccaaa caatttttcc ctcatTTaag ctgtggattt 420
 gaagaccctc gtgtgtcatt acaca 445

<210> 51365
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-G7

 <400> 51365

gccgattggg attaagccat tatcctttat ctgattccat gggatgcatca ggtataaggt 60
catcccaagc caggcttctc tgctttgtgg tgactgctat tgcaaaatta gcaacatgcc 120
acagtgaagt gcttccgagg gcacgcgtgt cattgggtaa ggtcactcgt tcccgaaact 180
catacaggag ggtctggcaa cgggcctgtg actatttacg gtcacatgaat gaaccagcca 240
tctgtttatc tgtactggga ccgtccaccg tccaaggaaa tggctcctggg attgtgaatt 300
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aggttcaccg tctcataatt t 381

<210> 51366
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G8

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tatggtttgc cagggcagaa gcatgacct cctgaagaaa gggatccatt gaggatattc 180
tatgaatcac tctatgagca ggtccccacc agtgacatgg ctgcaacctg gttgatggaa 240
tggggtttgc tcccggtgga tgtggctaga aaatgttttg agaagaaaca aggtcagaaa 300
gttaagtcac cagtcaaagc aattgt 326

<210> 51367
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-G9

<400> 51367
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cagcaaggct ccccggtgtg cccaccttct ccattagaac catacatgac aaccacagct 120
gtgtcgggat caaccatctt ggccatcagc aggcacatgt tcagtgggtt gcgaacactg 180
tcgaagagag gctacgtgag aaccagaaat acaagcctaa ggaaattttg gaagaaattc 240

acaaggccca tggcatcacc ctatactaca agcaagcttg gagaggtaag gagcggatca 300
 tggctgcggt tgcaggggtct tttgaggaag gataccgtct cctgcctgag tactgtaggc 360
 aggtggaaag aacaaatgca ggaagtatag ctcgagtgtg tggaaacca gatgacaatt 420
 gcttt 425

<210> 51368

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F2

<400> 51368

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 cttgcagact acaatatcca gaaggagagc accctccacc tgggtgctcg tcttcgcggt 180
 ggattattaag ccatcagtcg ttgaagctgc tgctgtatct gggttatcta gtgtctctgc 240
 cattgcccag ggatgggtgct gtctttcaaa gtatttgtat ggtttgtgtc gtgagtcgtg 300
 actgagctgg tttcatggac cagttgtgtt ctcgttacc aaaactatcg tgcgaccgca 360
 tatggcttaa tcatgaataa atgttgtttg aatttaaac 399

<210> 51369

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D6

<400> 51369

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 gcaagatcct ggcgcaacttc cgctcgtcca gctccgacat gaaggagctc gtgctgtccc 120
 tccccaggac ggcgcaagtct gactccggcg aaaccgagac cgagccgtcc gtgaccgcca 180
 aatcccagac cgagccgtga gtgactagct cccggtcgcg gtctcgttct ctcagtata 240
 gctgctacat cccttagcta gctgcacaca gagcgaggct actgtatagc tactacgacg 300
 aagaagtcgc cgataagcaa gtgtgcagtg caggcacgcg tccatcgatc ggccataagc 360

ggctgcagca gtcggtcggg cggtcgggtcg gcgtggatta aatgatcgga catatacgaa 420
 tgggtgcacac g 431

<210> 51370
 <211> 400
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-D7

<400> 51370

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 atatataaga tcttaatggt gatgccgata ctcgagaagt attggccgtc cttgtactgt 120
 ggttcttctt caacctgctt tgggtggaagg gggccatttt ggggtgcatga gtgggaaact 180
 catgggacct gtgcttacct tgaaatacag gatgaatatg actacttctc cacagcactg 240
 tatctctaca gcaaatacaa tgttacgaaa gctctgagaa aagcacgtat ccggcctaca 300
 agcggcagaa aatacgccgt tggccatatt gttgccgtca ttgaatatgc gntnggtgca 360
 atgccgtcac tcgtctgtaa gaacgggtca gttcaagaac 400

<210> 51371
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D8

<400> 51371

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 tctgcaactc caagcccaac atgcaggctt actgctgctg cgtcatcccc tagcatcata 180
 gtcctctgtc aacacaccta aatctgcagc cctgctagag aagatacgat ctctatgcag 240
 attagctgca gcgatata tagatggatg aatcgtgcaa gcggttgaac tatgggtgctg 300
 gaatctgtaa tatatataag cggatcatcc 330

<210> 51372
 <211> 361

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-D9

 <400> 51372

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 tcaatcagca acacccgtca tggattcgaa ctcatccaat cacaggaatg tgccaagatc 180
 tgatgtgaaa aacagcggcg tagtttcaca ctctagagcc tggaagccga aaaccaattc 240
 ccatcctcag gacagctcag acggcaagat tgctgttgac gggcaagttg atttctcatgg 300
 tggtaggctt gagatgaata ctttcaaaag atctgatata attacccatc tagtgaccag 360
 t 361

<210> 51373
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-E10

 <400> 51373

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<210> 51374
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E2

 <400> 51374

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 tgggcgggtgc cccttcgaac ataatgccat ccagggccat tgcattgctt gcttcctcaa 120
 cagatctcat ctccacaaaa gcaaatttct tgtcatgatt tatgtatata ttgagaacag 180
 catcacctgg accagcagtg tttcccccaa tagcagccat gacttgatta aagtaaattg 240
 ccactgtctg ttcgtttagca gatggaggaa ggccaccgac ataaacacgc cgagcatgac 300
 gagtagcctg ttgagtcatt gcttgtggct ggatgacaag gggattgaac tgcccagcaa 360

caccgaaagg gagcatgttt ggaaacatgc caccaatgtt gtgaagcgaa gagcctgggt 420
actgacctgc agggcatcaa taaatttcta gt 452

<210> 51375
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E3

<400> 51375

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tcgcgcctgc tttggtggag gtggtgagcc tagtgggagc acatcttgct tcttcctgcc 120
ccatctccct gtctagccta agctgcatat gatcgctcctt cgtgatttca acacttatgt 180
tattcacaac accattgctc ttgatcccct tttcagtaga gtctaagaat ttgacaattg 240
caatt 245

<210> 51376
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E4

<400> 51376

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ggggcttggt ctactggttc tgaaccaaac cgttcaccag caaactttcc tgatcctcta 120
ccaccatcac cttcaatgaa atatgacgag attcttgctc catctcatta gctgatcaag 180
caatcatcta tctgcatgc tgttattgaa ccaagtgcta ctgaaattat caatctcatg 240
catagcctac atgaatgcta c 261

<210> 51377
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E6

<400> 51377

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 cctttctatt caagtctagc aatggcggca ccactgaaaa aatcccatcc ccagaagaac 180
 agcgagaaaa aataaatgaa ttacgcaagg agcttgggtga acactcatca gcagccatta 240
 aagacttctt ttcatgatgc tcgttagcga gattttcttcg agcaaggaac tggaatgtgc 300
 agaaagctag taaaatgatg aaagcagctg tgaagtggct gcttgcattc aaacctgaaa 360
 acatctgttg ggatgatatt gcagaggaag cagagactgg aaagatttat agagc 415

<210> 51378
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E7

<400> 51378

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 taaccagggg aaaggagctc aaccgttttag caggaattag tggaacatgt gattttgtca 120
 aggcgggactt catgaagatg ccgttcgatg acaacacttt tgatgctgtt tacgccattg 180
 aggcaacatg tcatgcacct gatccagttg gttgctacaa ggagatatat cgtgtgttga 240
 agcctggcca gtgctttgcc gtgtacgagt ggtgcattac ggatcactat gacctaaca 300
 atgcaacca caaaaggatc aaggatgaaa ttgagcttgg caatggcctg ccagatatca 360
 gaagcactcg ggaatgtctt caggcagtaa aagacgccgg gtttgagggt gttt 414

<210> 51379
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E8

<400> 51379

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 ctcgagtctc tgcgaatccg ttgccggtag cctctctgcg gtgagagttc tgctgccgcc 120
 tgctggagat gatggacgac ggaggaggag gcgtgcagtc gcagggcgct aaccgggact 180

gcccacacgc cgccaacccc ttccaccgct gcgcgcgcta ctgccccgtc cccgccccgg 240
 cccccaccaa agccgcgcgc gccgccgtgc gcagcaagcc gtctccgcct cgtccgaggg 300
 cggctgcggt ggctgcgcag aacgggacag ccaagcacgg agacggcgct gcgcgtgtcg 360
 ctcccgctctt cgacgccgat gacgacgacg a 391

<210> 51380

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-F10

<400> 51380

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 ctggcacctg cccaagcca tcatgatgct catggccagt tttgctctgg aggtattgta 120
 ttggcttctc gagatggaaa gattgtgttt gagagtacac ttgacgcaag actagaagtt 180
 gttttccgca agaaattgcc agagatccgg aagcttcttt ttggccagac tgcagcctaa 240
 tcgactcatc tgccgatggc acggctgctt ctatgtaatg gttgccggct gcacgcctgc 300
 actgcagcca taaggaactc cgctgtttt tgtcaaattg attgtttaag gtattcatcc 360
 cctatgtaca aactacctat tggttcatta ttgtcgccga gagcaccgac tgtttgtact 420
 ctgtttgct 429

<210> 51381

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-015-Q1-K1-D5

<400> 51381

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 ccctccttcc cctacatccg cggctgggtc ttacacctcg actcggggcg tgctatgggt 180
 tctgtagagg aacatctcca acccaagggt tgcgtgcaga cgagcacctc cgcgggggctt 240

gagcagatcc tgccctggct cttctatcac aaggtegtcg gcgtcgcgca gttcctgctc 300
 ttcgtggagg gcaagggcgc gaaaccaat gtcgcgaggag tcctcgagtc aattcctggg 360
 gtaaaagtgg tgtacagaac taaggatctt gaggagcggc aggcacggag tcgaatctgg 420
 aatgagactn ggctttcagg atttttct 448

<210> 51382
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-015-Q1-K1-F11
 <400> 51382

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 tttagtgcga gctaggccaa ggaagctagg gcttgggtacc gcatatttac atggactaaa 120
 gcatgcctta ggggaatttg tcattatcat ggacgcggac ctatctcacc atctacaata 180
 ctagccaagc ttgattagga accataagga aactggagct gacattgtta ctggcacacg 240
 ttatgacaag aatgggtggg tccatgggtg gaatggtatg ctcaagctga ctgcgagaag 300
 tccaaatggt cttgcacaaa cgttactgca gcctggagct tcagatttaa ccggatcatt 360
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 cg 422

<210> 51383
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 51383

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 ggtagaccat gaagtgaggc acatcttcaa gacacgatct aaaattgtct catttatccg 120
 aaagtttctt gatgaccgtg aatttttggg ggtggagact ccgatgatga acatgattgc 180
 tgggtggagca gctgcaaggc cttttgttac acatcacaat gaattaaaca tgcggctttt 240
 tatgcgcatt gtcctgaat tatatctgaa agaactggtt gttggtggat tggaccgtgt 300

ttatgaaatt ggaaagcaat tcaggaatga aggaattgat ttaacacaca atcctgaatt 360
 cacaacttgt gaatnttata tggcgtatgc agattataat gatttgatgg agcttactga 420
 aaaccatgtg tca 433

<210> 51384
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C11

<400> 51384

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 cctgaggaag aacgccctgg ccgcttcctc gtcgccttca cctttgacgc cacggtcgct 120
 ggcagcatga ctgtttactt ctttgcaaag gaagagctca actgcaatct aacaacagtg 180
 aaagaagacc taattaagcc cattactgtt agcttcaaag agggctcttg tcaaaaattc 240
 aggcaacctt caggaacagg aattgacttt tcagtgtttg aagaatcaga tctattaaag 300
 caaggggaca tggatgtata tccacttgca gttaaagctg aaacaacatt gtctgttgat 360
 caccaccag aaagggatga ccaaagatg attactacta actcacagat caccaggcc 420
 gtttctgaaa agaaa 435

<210> 51385
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C2

<400> 51385

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 ggaagccatt atccaatccc taaactcagc tcgttttgag caacataata agtatcaagc 180
 ggagcttaga cgcttcgagc atgatctgaa tgttatggct cagttgggtca ctacatacaa 240
 aaaagcttta aaacagaccc gggcttcttt tgatgagtac aggaagaagt tcccttgcaa 300
 tgttcctctt tatggtgatg ttgcttggtg cggtggtctt gttcttagtg tgaggagatt 360

ggagaaaagg ctgtgttgag gagcaacatc aaaaatattg ccatggtaaa atgggtattga 420
 ttgaaaagat 430

<210> 51386
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C4

<400> 51386

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 ctactctatc tatcttgctc actactcatc tccatcactt caaactaatt ctactatatc 180
 catacttata actttatata aacatatatt aaacctttct ttcacatca tgcacatgta 240
 tacatacatt tccgaatttt atatccgttt gacataagct ccttactttg accac 295

<210> 51387
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C5

<400> 51387

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 tgcctaattg 130

<210> 51388
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C6

<400> 51388

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 atagaaggct tgatttggtc ccctaaagca agtgattcaa atgatagaca tgatgattgg 240
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 gtagcattag tcagaaatag gcaactcggt gtggcaaatg ctggtgactc ccgctgcgtc 360
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 taaagagaaa g 431

<210> 51389

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C7

<400> 51389

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 gctgcgtctg gtggtggtga aggggagaaa ttcgtgagat ctgttccgga tcaggcgtgc 180
 gagctcggga atcaggggtt tcacacatag cttcgtcgat ttgaatttga tgtactaatg 240
 gagtctaagg gtggcaaaaa gtctagcagt agtcgttcta tgatgtatga agctcccctt 300
 ggctacagca ttgaggacgt tcgacctgcc ggaggcgtga agaagttcca gtctgctgct 360
 tactccaact gcgcgaagaa gccatcctga tttccctttt gctttctcat tctagtagtt 420
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<210> 51390

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C8

<400> 51390

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cgatctgtct tgttcgctgc tgttggtaca gcaggacaac gctgcactac atgtcgtagg 180
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 caagtccgaa ttgggggatcc gttggagaaa ggcaccttac tgggaccact gcacactcct 300
 gcttcaaaag agaacttttt gaaaggcatt cagactatca aatctcaggg agggaaaatc 360
 ctttttggag gatctgccat tgaatcagaa ggaaactttg tgcaaccaac aattgtggaa 420
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<210> 51391
 <211> 374
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C9

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 cgacttcgac gccacttcg atcgctctt cgttccccg gacgccgct ccgacggcaa 180
 ggtgaagctg ctgctcttcc tggccgaccg caagcctggc tctcctctc cctggtgccc 240
 cgactgcaac gtggcggagc cggatgatcta cgagcggctg gaggcactgg aaggcaagga 300
 cgccgtgctn ctgcgcgct acgtcgggga caagcccact tggcgcgacc cggcgcaccc 360
 gtggaggggtg gacc 374

<210> 51392
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D1

<400> 51392
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 gggcaggata tcgcatgccc caactgcaat gatggtttta tccaggaaat tagtgagatg 180
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agattcggaa tgatggatgc catgtcttcc cttatgcggc aacggatgga agaaatggga 300
agagatgggt tgtttgatat tcgtggtaga caaggaacag gtactgaata tggaaagagg 360
ccaacttgct gttctacatt ggtatttggc ggcattcct 399

<210> 51393
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D10

<400> 51393

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gcggcggcgg agaccgggtca gaaggaatgt cttcggccca aatcgcgccg gcagatcatg 180
tgtgctatgt gcactgcagc ttctgcaaca cagttctcgc ggtgagtgtc cgggggaata 240
gcatgctcaa catcgtgaca gttcgggtgtg gacactgccc aaatctactg tcagtgaacc 300
tgagagcact gatgcactca ctcccagaac aagatcatca gctccaggag aacatcaagg 360
tccatggcat caacggcact ttgcacgatg atcatcagta ctgcggccat ttggatcagc 420
tcggctcttc 430

<210> 51394
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D2

<400> 51394

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ccaaggcacc caaggccgcg cccaagccca agccctcgcc gaaggcgaag gccaagaccg 180
ctgcgaagcc caaggcggcg tcgcccacaa ccaaggccaa ggccaaggcc aagcctgtcg 240
ctcctgccgc cgcgtcgccc aagccccgcg ggcgccctcc caaggtcgtc aagaccttcg 300
ccaaggcctt ccccgtaag gcagccaaga aagcggctgc tcctgccaaag aaaggaaagg 360

cagc

364

<210> 51395
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D3

<400> 51395

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tatactacat ccaatcttac gtcatacatc catccaatgt catacaccat ttttattgcc 180
acctaattta atttatttaa cctacattta acaactcaa 219

<210> 51396
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D4

<400> 51396

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ttgtcaccgg agatgtgacc aacaacttca aacatgcctt gactggccgc gctttcaacc 180
gctccttcag cgggagcggg gcatcaatgg acatcgtcgt ctccagtgtc agagcttacc 240
tgaatgccct gaacaagatg tgtagctttg ctggtgccgc gaaagccagc ggcgaggtac 300
ctgagagtgc aagcgtccaa agcgcagagt gagcttgccg accatttggt tctcatgtgg 360
act 363

<210> 51397
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C1

<400> 51397

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atctggaatc ctggaatttt ccctgggtgg gtaatccatg gggatgacat tttagtcttt 180
atagggggtt ttgcatccct gggttttgct tacccttctt cgaaagtagg cattagtggc 240
cagagcgcca ggccatgcca attttctttt ttctgatgca tatgttcttt tatcagtgat 300
cgggttgacg ctgggcgtgc acttgatctt tcagtgtatt ttggtgattc tggaagcaga 360
taggtactgc acaaaattgg agctgaaaga gcttgtgctg ctgcaattac ttg 414

<210> 51398
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A4

<400> 51398

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aatactccaa ttcatgaga ggctgacact aaagaaactt tccatgaagt tcaatctctt 180
cattaaattc ctccaaaatt cctatgtaac aagccattac ataggaattg cacgagattt 240
gtcaaaaccc aatccttatt cccaacgtg ttattcctat attgtttcaa tcctatactg 300
atgtttggat actacattgt gaat 324

<210> 51399
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A6

<400> 51399

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caattcgatg agaggctgac acgaaggaaa ctttccatga ggttcaatct cttcagtaaa 180
ttcctccaaa attcctatgt aacaggccat tacataggaa ttgcacggga tttgtcaaaa 240

cccaatcctt tttccccaag gggttattcc tatagggttt caatcctcta ctgggggttg 300
 gatactacat ggggaatcga ttggtttcct gccctggaat cagtttcgtt accggcaaata 360
 tttgtgttct cgctctgacc agccgcgaag gccataaca tcttccaaca aggatctact 420
 caacagtacc gcgagctgtt tgggtgagg 448

<210> 51400
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-A7

 <400> 51400

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 tgcgagaagg caagccatct agagggtcca gtagctgagg gcagccatga gcctctcaag 180
 ggaggaaagc cgcacgttgc tgacttcgtt catggacctg atggcctcgg gaacgtagat 240
 cttcctgatc ccactatcaa gaaagtggag gaaagtgcta ccgacttctt ggttgataag 300
 gtctcgcat ttcttgaga ggtctctgtg ctgccttgg gtcctctgac aaacatagca 360
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<210> 51401
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-A8

 <400> 51401

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 tgcggtggcg cgtgcagct cccgcctggg ttccgcttcc accccaccga tgacgagctg 180
 gtgatgtact atctctccg caagtgcggc ggctgcccgc tcgccgcgcc ggtcatcgcc 240
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aaggagtggt acttcttctc gccgcgcgac cgcaagtacc cgaatggctc caggcctaac 360
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 ngccccgt 428

<210> 51402
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A9

<400> 51402

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 gaataaatga ataatacgtc tagaactgat tttctgtcaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaa 215

<210> 51403
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B1

<400> 51403

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 gccggcttcg ccaagcgcgg cgaggactac ttctcgtca agcccgactg cgtccgcgtc 180
 cccggggacc ccgcacgggc gttctcagtt ttcgccgtgt tcgacggcca caacggcgtg 240
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 gacatcgggc gcgacgactg gctgcaggcg ctgccgcgcg ctctcgtcgc cggctttgtc 360
 aaggccgaca ttgatttcca gcgcaagggg gatgtgtcat gaaccacggc gacactgggtg 420
 ggcatcgatg gggttcacggt caca 444

<210> 51404
 <211> 351

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-B10

 <400> 51404

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 gtactgatgc tgctcctgtg ttccaccagg tcgcagagaa catcgctgac tatctggttg 180
 ccaaaaacac cctcaagatc atgcccttca agctaccggc cgtcggctct tatgatgtcc 240
 gcgtgcgcat gaatgcactg acgatttgcg gcaccgatgt gcactacctt caggagatgc 300
 gcatcgcgca cttcgtggtg aatgagccga tggatgatcg gcaccagtgc t 351

<210> 51405
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-B11

 <400> 51405

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 gggtattctg tgaagcatcc aagccaggct attgttatga aaatttgctg tctgtaagca 180
 tgtgaacttc cgatgttgcc acatgctgga tcagtctgaa taagtaagta tgcagctcta 240
 ggtggtcagc tgcgtctacc acaatgagca tgaacgtatg gagaaatata tgtgaaccca 300
 ttatggctat gaattacatt ttgccttttc gaaataagaa tactggcggc gtctgttcaa 360
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 cgca 424

<210> 51406
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-B12

 <400> 51406

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 ttgcgagaag tgagcaccct gaaggggagg atggagtcag tggatgaagca gaaggggtctg 180
 gacatcgaga ccatccagca gtcctacacc gtgtgactgg ctgaccgacg acgacgggggt 240
 ttatagaggt ttctttcttct tatactatac aatctgtact aggttagcaat aaagatcaag 300
 gaaagaaccc ctatatattg gctgtggttc gcgggaaatg aatgatggtc atatttatga 360
 tgtcgggtgtg gtgcttctgt cgccaactct cgaccatact accctcaact cacccttctg 420
 atgct 425

<210> 51407
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B2

<400> 51407

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 accttatgca ttaggagtag ttctagtcta gttctagttt agccctagtt tagtattcca 180
 atccccaaat tctccgctc tctcgcactc tacgtcgatt agaggagtct aggtcggcct 240
 gcccgagcct agacaactcc taggatctct cctccccgac ggggtccctc ccgggagtga 300
 gatccaggcg ccgtcggcga tctaccgtcg cccctgcgca cgcgcggacc gtccggccct 360
 aatgcgcgga ccgtncggcc gtcaggcatg gaacccgagc ttctgcaccc agtcgc 416

<210> 51408
 <211> 363
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B3

<400> 51408

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 tgcatacaata actgcccgtt cttcggcagt gctgcgacga tgaacatgtg ctccaagtgc 180
 cacaaggaga tgataacgaa gcaggagcag gccagctgg ctgcctnctc catcgatagc 240
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 gttcctcaag ttgagcagaa gactattgtt gtgcagccca tgcttgtagc tgaaaccagc 360
 gag 363

<210> 51409
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-B4

<400> 51409
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 atcaccactt caacattcac atacagcttc aactccacat attacatttt accacttcca 180
 ttattactac atatctacaa ttgaaccac ttcaatcctt attctctgat cacacttact 240
 actcaactgt gctataatac acctgttctt t 271

<210> 51410
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-B5

<400> 51410
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 aatcatcata tcgtagacga cgcgcagcat taaactatca atcaccgat ctggctcttt 120
 cttggccctg tactgtacta ttaatgttcc gttcttgttt ttttattcgg aattgtcgcc 180
 gtttcagtat acgtaaactc cgaggtcgat aatacagtaa tactaccaat ttaactgt 238

<210> 51411
 <211> 438

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B6
 <400> 51411

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 gcagatggga aggggggtcca tgtcaatcct tattcttgga acaaagttgc aaatttactg 240
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 aaaaatgggg atgcaagaac tgccacggat tcattggcat tcttactgaa gtggcttgaa 360
 cgctttcctc aatacaagga acgcgaattt tatttgacag gngagagtta tgctggtcac 420
 tatgttcctc aactggct 438

<210> 51412
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B8
 <400> 51412

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 atatgctact gcacttaaga agttagacct tcagtttaca ttcctttcca cagaggatca 180
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 ggatcgtgga ctacaagttg ttgcacagac ctgcaagaaa ttgcataggc tcagagtaga 300
 gagaggagat gatgatcaag gaggtcttga ggatgaacaa ggtaggattt cacagggtgn 360
 gttgatggct atagcccaag gctgccctga gttgacatac tngcgcatac atgtatcaga 420
 cattacanat gcagcttttag aggcagtt 448

<210> 51413
 <211> 382

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-B9

 <400> 51413

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 tgtacgttcg gtaggcttat tagcttggc gtcgtaactt agctgatctt gttgcagtcg 240
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 tggcgggtccg cgctgggtccg cg 382

<210> 51414
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-A3

 <400> 51414

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 ttggtgggca ctgtaccagc ctaatttata attttccatg agcatcttca agagtttttc 240
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 aacttttcta tatcttggtt gcaccctgga gagctattta cgttttctat ctttagctag 360
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<210> 51415
 <211> 400
 <212> DNA
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 <223> Clone ID: LIB3079-014-Q1-K1-G6

<400> 51415

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ggcttctgaa tgaagacgcc ggtggcgccct agtgggtagg cggcggaggc gttggtggag 180

tcggcggtgg tgggtagttg gatgttgctg ttttaagatga aggtgctgta gtcggcgggg 240

tgtccttcgg ttgttcttga gttggttgcg cttgcgtagt ctggtgatta tggttattct 300

gttcatcttt atattaatta ggtgtcttct tgttttaggc tgctgtggt taaagatgaa 360

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<210> 51416

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G7

<400> 51416

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ggaaacgggg aagggagtgt aagggagtga cgtgggtggtg gtgggtggtg aggcggagga 180

gaatacggtg gtgcggtcgg ccgttaagaa tatttctaag actacgtttc ctaagtcttt 240

gtttgctggt ttccacgacg cttgtgcgtg tacgaaggta gcggggaccc gtggtagtga 300

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<210> 51417

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G8

<400> 51417

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aaaaaaaaaa aaaaaaaaaa aaagggaggt tataacaaag gatttaagta aatgaatgtg 180
 cgtaagtaat ggaaagatag caaacgggg tgattaaaac caaaccaatc ggttatgaat 240
 caaaaatgac attgagcggg aaaattaggg atggatttaa tcaaaaaggt cggaaaaaaa 300
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<210> 51418
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G9

<400> 51418

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 aggacgggcy cacgcttgcc gactacaaca tccagaagga gagcaccctc cacttggtgc 180
 tgcgcctcaa gggaggcatg cagatcttcg tgaagaccct gaccggcaag actatcacc 240
 tcgagggtga gtcttcagac accatcgaca atgtcaaggc caagatccaa gacaaggaag 300
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<210> 51419
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H1

<400> 51419

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 cgctaatcgc ggccaagaac ggcggatcag tattcgatgc gtcctaatac cgatgttgaa 240
 cagttgaggg aaagtatcga cgccgaggat ctgacatccg tctacactct tggaacggat 300
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369

<210> 51420

<211> 375

<212> DNA

<213> Zea mays

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agacagaatt atctgctgtg ttggcttggt tactttgatt gtaccccaag tattttgaag 180

ttctgaactt atttctgcta attggtgtct gaagtggata tgttgaatgt attttgtttt 240

gttggataga gttcctcagc attgccaccg tatgaaagat gaatctattg atcaaccaat 300

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caatattaaa ctttt 375

<210> 51421

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H3

<400> 51421

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aggacttcta agctggatgc ggaggtttct agagctaagg cgaagtcggt ggaggatacg 180

gcggtgtgtg gtgtgtcgct acgtgggtcg ggtagatcgg ggtcgctggt ggtgtcgaat 240

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gttgatgatg ttcgtcctat ggggtcgcgt ttggtggagt agtcgtagtc ctagagtctt 360

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<210> 51422

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H4

<400> 51422

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agcctcttag cgtctctctg gtcgtcagtc tcgtccgcga ttatacctgc gaccgggcct  240
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<210> 51423

<211> 407

<212> DNA

<213> Zea mays

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<400> 51423

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cccttccttc atcgagaagt taacgatgct cgacctacgc gtcttcccgga ccgtaatttc  120
cttaccggag gtatgtggaa aaaccggcga tcctacaaaa ggagcgcccg ttgctccttc  180
agatccggac cctctaccct ccgagacgaa cttgcctatt acggctaacg gggagttaca  240
cttctcggat acgagaggag aatcagacga tatagtagtc cctaagaatc ctaagaagcg  300
gggaggcaca gaacccttct cattccccgg aagagcatct agtttcatag aaagccctac  360
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<210> 51424

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H8

<400> 51424

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tgggtgtata tgccttgggt ttttaattggg tctattatcg ggggtgttcgt tacttatgat 180
 gtggatcctg ggggggtggg tgcgcctacg ggttttgggt actgtcatga gggctctgtgc 240
 ctggtc 246

<210> 51425
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-H9

<400> 51425

cgcggagttc aaggaggcct tcagcctctt cgataaggat ggcgacggct gcatcactga 60
 ccaaggagct tggaactgtg atgcgctccc ttggccagaa cccactgaa gcagagctgc 120
 aggacatgat caacgagggt gatgctgatg gcaatgggac cattgacttc ccagagttcc 180
 tgaacctgat ggcaaggaag atgaaggaca ccgactccga ggaggagctt aaggaggcct 240
 ttcgcgtctt cgacaaggac cagaatgggt tcatctcggc tgctgagctc cgccatgtca 300
 tgaccaacct cggcgagaag ctgactgacg aggaggtcga cgagatgac cgtgaggccg 360
 atgttgactg cgacggccag atcaac 386

<210> 51426
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-A1

<400> 51426

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 ctgcatctgc agttgtcagc agcaaaatta gcagcagcca cagcaagagg caatagagga 180
 atccatgtgc tgtttgtgac tgattgcttc ccaattccaa acctcttctc ttgcaaggac 240
 ctagtgaaac gtgaaggcaa tgcttgatg taaaaacctg acgtgaaggc tctaaaggag 300
 aagctcangc tgctgttggt ttcctgtgag cttgctgttc cactcaacgc anaagcacga 360
 ctctacacgg tagacagacg cagagaagca tatgctacaa tac 403

<210> 51427
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A10

<400> 51427

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gacgtggaca tcacctggca ccaccgcctc atcctgatag tcgacaacct gctcttcctg 120
atccccgcta tcaacaccag ctccgggacc tgctgctgctc ccgagtgggc catccccgac 180
agccgcttcg acatgcagct caagctcgtg accagggact ccgccggcac cgtcgccacc 240
ttctatcttt cgtcgcaggg ttgcgagcac gacgagatcg acttcgagtt cctggggaac 300
gcgagcgggg agccgtacac ggtgcacacg aacgtgtaca gccaggggaa aggcgggcgg 360
gagcagcagt tccggatgtg gttcgacccc acggcggcct tccacgccta ctccgtgctg 420
tgg 423

<210> 51428
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A12

<400> 51428

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agcttgctt cttcccccat accttccatc aatgatagct tcagtatgtg aaaaccagc 120
tcttcagccc tataggctcc aacaagcaat cgcagcaagc aacatacctt tatcaccctt 180
gttgtttcaa caatcgccag ccctatcttt ggtgcagtca ttggtacaaa ccatcagggc 240
acagcagctg cagcaactcg tgctacctgt gatcaaccaa gtagctcttg caaacctttc 300
tccctactct cagcaacaac aattttcttc attcaaccaa ctgtctacac tgaaccctgc 360
tgcttatttg cagcaacaac tattaccatt cagccagcta gctactgcct actctcagca 420
acaacaac 428

<210> 51429
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-015-Q1-K1-A2

 <400> 51429

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 taggcactgc ctgtcgcaga gccacctgtt caagggcctg tgcattgagca gcaacaactg 120
 cgccaacgtg tgccagaccg agaactttcc cggcggcgag tgtaaggcgg aaggcgccac 180
 gcgcaagtgc ttcttctaga atatattgcta gtagtagcct cagctttgct ggcacaagca 240
 cgtcttttagc acgcaacgca attcaagcat catatcggtc ctcttgccgc gttgctgtct 300
 actttgaccc cgtatttttt ttctatcgat ttctttgttt ttctgttgct ctcttatttt 360
 cccccgaata atatgcttca tgggatctca ctgt 394

<210> 51430
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-014-Q1-K1-G5

 <400> 51430

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 tttgcacttg tttgcttcgc ctttgttttg agtgaattgg tgggtggtgga ggtgacgtag 180
 tatgagttgc ggtggttcgg tgctgagttt gttgttgggg tcggggtggg ttctgtcttt 240
 attattgctg atgaggtact tacggagtgg agtacgagtc ctgctaaggt gtcctaggag 300
 tctaagaatt cgtgtttgta gtctcatctg gttcttgagc atcgtgagaa gcttcattcn 360
 tgtagtgaat agaaattagc ggcgtcggat aatacgaaag accatgtcgc tagggtttcg 420
 gctaattgt 428

<210> 51431
 <211> 421
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E9

<400> 51431

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gggggtgaaca ccaaggagga tgtcgcgtgg tacgctggca agcgcatggc gtacatctac 120
aaggccaaga ccaagagcaa tgagacccgc tacaggtgca tctggggcaa ggtcacccgt 180
ccgcacggaa actcggggtcgt cgtccgtgcc aagttcatgt ccaacctccc gcctgagtcc 240
atggggcgca aggtcagagt gttcatgtac ccgagcagca tctaagggtt tgttgagta 300
aagatggact agaaatggcc atgtgtttat ttctcacttt tctctgaact taaaatgcct 360
tgtgttggtta acttaaattg ttcaagtgtc gaacctgtgg aagttgtgcc aaaatttggg 420
g 421

<210> 51432

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F1

<400> 51432

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tatcgtacgg ccttagtggc tagtcttgtt gcgcgttggt aaggccagcc agcaagggca 120
tatcatattt atactttact ttactttacg tgcgttatga tgaacgaaaa catcagttcg 180
ctagatctct ctctcgttgt taacactctc tcgtcagttc tcgccattct atcgatgatt 240
actaattacc agctctattc ggatgtaaat cgtaacagtc aatcgggtta tctg 294

<210> 51433

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F11

<400> 51433

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 ggtattgctg ctgggattac aaaaaaaaaa aaaaaaaaaa aaaaaaaca aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaata ccaaaagcaa aatacaatac aaaaaaccac tgtactgtaa 240
 catcaactac gcaactcacc aagcacaat ttgctgtctc aactactcca gtttgaaaaa 300
 tcccaacaag aatgatatcg ggccttata tga 333

<210> 51434
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F12

<400> 51434

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 agagagatgg agcggatgag ctcgtcgggt cagtcctggg tggaggaaca caagctctcg 120
 tccatcggag ccgtgtgggc gacggcgggt ggcgcgtccg tggcgtacag ccggcggagg 180
 gcgccggcgc gggccacgag cctgcgcctc atccacgcca ggatgcacgc ccaggcgcgc 240
 acgctcgccg tgctcggggg agccgcgcgc gcgcaccgct attacggcag cagcgagagg 300
 aggcagagggc aggaggacct ggactacggc ttcaaattccc agc 343

<210> 51435
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F2

<400> 51435

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 aaacaaaaaa aacaaaaagg gaacgggcca accaaaaaaa gcgaacacga aaaaaaacag 120
 cacaaacaaa cgaaaaaaca aaaaaaaaaa agggtttttt ttccaagggt gtttaattcc 180
 tttcttttcc ttactttatt ccaaattttt ttcaacgggt tttttaaaact taaatttttg 240
 ttttttcccc tatttttccc attttgaaa attttggggc ctttttaact caatttttcc 300
 gtaattacct ttttcccctt ttgccgttta aaactttaaa ggtttttt 348

<210> 51436
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F3

<400> 51436

tggcctggac ctttgggctg atttatgtgc ttgtttatgt gcttgaccct gtctctgtac 60
gctgtaagtt attgaccgcg ccataggtgt gggagtcctt gatgatgac gagttacgcg 120
tggtgggtgtg acttccgttg agtcttgtga gttgggtgtg tgttgggtcta tggagtggga 180
tactcggtag tagaagaaga agtttaagag ggggtgggtgt ggtgggaggt gtctgcctgt 240
ggtggaagat gacgaggatc ctgaggttga tcttgaggat cccgaagttg atcttggcga 300
cctggacccg gagtctgggg aaagggtcga tgatgatgct actgagacta agtttcctg 359

<210> 51437
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F4

<400> 51437

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acctttatcg tttaaaattt cattcttacg ttcgtctgta tgttcgtggt ccttctctag 120
tagaatggcg ttataattta gataccctta gcctggtgta gcggaattg cggaaacggc 180
agtaacggcg gtgctagggt cgtaacagc agtggaggcg atgggagtag tggtagcggc 240
ggcgacggca atcggaacga cggaagttcc ggcacgata gtggccgtaa tagtagtaac 300
ggtgacggct ttactaacc ggacgacaac gctttcggtg tctgccgcgt ttgcgggaac 360
gataacgata gtagtagaaa cttcctcggt aacggttatc ggaattataa tacatgaggg 420
ggcggcggcg gc 432

<210> 51438
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-F5

<400> 51438

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cggttaggag ctageccgcc gttcgatcct aagatagtcc cttttaggcg gtaagtctag 120
gcaaggtaat agtacaagta cctgtcggg tatacgcggt aagcgtaccg cgcacttcta 180
cttacagtcc ataactcgcg cccgctacac acaacttgacg ttentacatc aggattcggg 240
aatagcagct ttaaactccg atttcgtcgg gccggattcc tctctcaaaa cgtcctgaca 300
tgagttaagt aaaagaacta tagtgaggnt agtatccgag tacgag 346

<210> 51439
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-F7

<400> 51439

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tccaaatgat gaattaacgt tggacgtcgt actggaaaag gagtagggaa acgagcacc 120
taaatagaag aagcctatcg acgtcaccga acgtcatctt agaagcaccg ggtcgtctt 180
catagtagct ataccgtaa acagagtcac ggtacactcc aaatcaagaa gacctaagga 240
ggtagaggat gaccgtatcg aagtctcgaa ctgggacgac tgtcacacca aagtacatct 300
atgttgaacc atcgtatgaa aagaatccgg gaagtcnaag gaggtaacgg acgacgtcga 360
aaccgtcact agtccgact taaataacct 390

<210> 51440
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F8

<400> 51440

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tattaccgac gacgttgagt acgacgctat taacggctcc gttgagtacg acgctgtaaa 120
cgacgacggt ataacgctat cgtgatgttg ctctgtagac cacgtcgtaa tagtagccat 180
tacctacgcc taatttaacg gttacgatga ccttatttac gcctccatag taatttcccg 240
ccggcgctgt acctcagaca gaaacacccg cgccgcatta aacaacgagc cgatacgta 300
ctgtgcgcga tctaccacca ccaataacaa aataagccct tccccactaa aaaaaaaaaa 360
aaccaaacaa aaaaaaacia aaaaagaaac aaa 393

<210> 51441
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-F9

<400> 51441
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ccccatttct cctcttttcta gggtttctacc cctcatcggt cctcgctcca cggccatggt 120
gaggatgaag caggtaaaga tctcggtaaa gaaggacgtg gattcgtaca caatccgcgg 180
cactaacaag gtcgtccatg tgggcgactg cgtgctgatg cgggcgtcgg actcggacaa 240
gcagccgtat gtggcgcggg tggagaagat ggaggccgac ggacgcggca gcgtgcgggt 300
gcaggtgcgc tgggtactact cgcctgagga atccaaaggc ggtcgccggc ag 352

<210> 51442
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G1

<400> 51442
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gggtgtggtg tgctctcgga tgggtgtgga gaataagtag cctgagtggg tgtcggttgg 180
gtctgattct cgttggttgg atcgggagaa ggcggtgtgg gttactttgg gttggatggc 240
gtgtgaggct tctagttatc ccaagagttc atacgctgat gcctagtaga ctgagagtgg 300

ctaggagttt acgt

314

<210> 51443

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-014-Q1-K1-G10

<400> 51443

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cgctcggcatc tgcgggtttc agctcttccg gaacatcact ggcaaccggg aagtcagggg 180

aaacaaggca gggagggcag ctggtgtgct tgagaaccat gaggagggga gacgttacgc 240

catgcatggc ctaagaagct ttgtgcacga caagactcct gagatcatgc ctgcagttaa 300

caagttcttc actgacccta agtgaagcat gttgattggc atactactac tactactngc 360

tactggggat tntacacttt gctggcaact caatatgttg gggacattca tg 412

<210> 51444

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G11

<400> 51444

ccagctacac ccacgcatcc tacaaaaaaaa aaatacaaaa cattatacct taaacaataa 60

acaacaacac aacaaagaca aattaaaaac aaatcaacac ctacatcact aacaaaccca 120

ccaaaatcta aactcaaaaa cctctaatac attaccctaa aaacaaagac ttcccagatc 180

aataacctta ccttcactta taaaaccatc atcatcccca tcaacatcaa ctacaccatt 240

aaccccttat tacactacct ctgcatactc tgcaaccaca aca 283

<210> 51445

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G12

<400> 51445

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ttttttttttt tggcaaaacc aaaaagctaa aatttttttta cccttgggaa aagcgtttca 120
aaactgggtga cggtaaaaat ggccatgata attttttttgc aaaaaaaacc cccccctttt 180
tacaagaaac ggggggttttt caaaatggct ttttttaaagg tttcaaacc cgtgactgct 240
tttttggcac cctatcccaa ttccttttggc ttcgggaaat atgcccattg tacagccccc 300
gcttgggaaa ggcctttttcc caatgaaaag catttgcctt ttgggcctac ccatatttgt 360
tccggacca ggggaaaaaa ggcccccccc g 391

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<210> 51446
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G3

<400> 51446

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ggccctggac ctttgggctg ctttatgtgc ttgatgcgat accgacggcg gggcgggcgg 60
cggaggagga ggaggagtat ccgactgcgc gacggcggac gggggcgag gggcggtgg 120
cggagtgacc gtaccgccac ccaattccgg aagcagaggc ggaggcgag g 171

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<210> 51447
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E8

<400> 51447

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ttaccggtaa ggagaccgcc gattcgctt ccgattgtac taggaagtcc gtagacaacc 120
gtatcggtc ttagggctct tctgtccta atgtcgccgg cggaggaatg ggtctcgggt 180
ccggcctctc ttcttcggag tgctcgtcg ccgatcacgg taagaagctt aagtctggcc 240
ctattgcgca ttacttttt taggcgtta tacttgccgc cgagttacat aatagcgctt 300
cgcttattta tctctcttct gagtatatcg acgccgtc 338

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<210> 51448
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-G4

<400> 51448

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taacatgggt aacgtccgga ggatgtctaa gacccgcctc ccgcggcggc gtattctcgc  120
taagcgatat ataaagaccc acgaacacac gctcaggcgc tttagcgggc taaggtcacg  180
gaccgatcga aatccgcgtc ggagtagtcc ctatcgaacg ggacgacata agcgcgggct  240
gcgcgcggctt aatatacttc cgccgtcacg cgaagtccgc tctacgggaa gaaggcggcc  300
ataagaccct cgacctctta acgttgagag gaga                                334
  
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<210> 51449
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C11

<400> 51449

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gttgagatgt tggtttatca ggatctccta tctggcgacg agctcctgtc ggattcattc  120
acctacaagg agctcgagaa cggcgtcctg tgggaggtcg agggaaagtg ggtcacccaa  180
ggtcctgttg atgtggacat tggtgccaat ccatccgccg aggggtggtga ggacgaaagc  240
gttgatgaca cagctgtgaa ggtggttgat attgttgaca cattccgtct acaggagcaa  300
cctccttttg acaagaaatc atttgtgtct tacatcaaaa aatacatcaa gaatctcact  360
gctgtgttgg agccagagaa agcggatgag ttcaaaaagg gtgt                                404
  
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<210> 51450
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-014-Q1-K1-C12

<400> 51450

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tgaagtgaac cgatcgatcg atcgatcgag cgagcgagct cccatgaagg cgttgattct 120
ggcggcggtg ctgctgctgc agcacggggg agccgcgagc gccggcgga acttctacca 180
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gacgctgtcc atggacaggt cctccggctc gggcttccag tccaaggccc agtacctcta 300
cggccgcttc gacatgcagc tcaagctcgt cccgggggac tccgncggca ccgtcgnac 360
cttctatctt tcgtcgagg gt 382

<210> 51451

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C2

<400> 51451

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aaaccaacaa 70

<210> 51452

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C3

<400> 51452

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acggagggta ggtggatgag gaggaggac gagctctcct gggtcggat gaaattagaa 120
gataccttgt tttaagaaga gtgtcttact aggcagtaag ggagtatagt cttgaaagta 180
tacagacgtt atctctggta gcggaattc cagggaagtc gcgaggccgt tcttcggaga 240
ggacactaac gaacgggtccg tggcgaacat cgcggaccct cccaattaag ccaacacgtc 300
gcacggtata tctatagaac cccgtatatt cgagagtcgc ttgataacga tagtcggttt 360

aaagcatgag catagacggg tcgacggcgc gtagacaaag aaatttacag 410

<210> 51453

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C4

<400> 51453

ggacctttgg gctgatttac tgcttgggga gtccttcgat atgtctaagt cccctgagcg 60

tgctgatgct gacgggtttg agggaggtga ccaggctagt gatcata 107

<210> 51454

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C6

<400> 51454

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tacggagtta gataaggt 78

<210> 51455

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C9

<400> 51455

cagaagcggc ggcggcggag caaacgctat gcgaaggcga ggggtgtgagg gaaggagcac 60

cagccatggt gcacgtcaac ttctaccgca actatggtaa gacgttcaag aaaccaaggc 120

gtccttatga gaaggagcgt cttgatgctg aactgaagct ggttgggtgag tatgggctga 180

gggtgcaagcg tgagctttgg agggccagat atgcactgag caggatccgt aatgctgcaa 240

ggcacttgct cacccttgac gagaagaacc cccgtcgtat ctttgagggt gaggcacttc 300

ttcgccgcat gaaccgctat gggctgcttg ctgagggtca gaacaagctt gattatgttc 360

ttgccctcac cgctgagaac ttcttcgcaa ggcggcttca aacacttgtc ttc 413

<210> 51456
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-D10

<400> 51456

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cgctgtggga cggcagctac tgggccacgc gcaagggcga ggtcaagatc gactgggtcca 120
gcgcgccctt cgtcgtctcc taccgagact acaccgccaa cgctgcgcc gtccacggcc 180
ggaacggcgg cggcagctcg tcgtgccccg ccggtgccaa cgagtggatg gacaggcagt 240
ccgacgacac cgaccgtctc accgtggctt gggcgcgccg gaactgcttg cagtacaact 300
actgcgatga ctggtggcgc tttccgccag ggttccccg aaagtgcgcc cgcaactgat 360

<210> 51457
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-D12

<400> 51457

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tcgaccccg cggccgtccg cgagatgcag aaggatctcg aggtccaggc caacgccctc 120
agcaagatcc agaatgacat cgtcaagaac caccaggctc gcaagcagta caccatccag 180
gtcggcgaga acgagctcgt cctcaaggag ctggagctgc tcagcgatgg ggccaacgtg 240
tacaagctca tcggaccggt gctggtcaag caggacctcg ctgaggccaa ggccaacgtc 300
aagaagcgca tcgagtacat ctncgcagag ctgaagcgga tggatcgggc gctcaaaga 359

<210> 51458
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-D3

<400> 51458

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ccgaacttcc tacgctagag aaggacggca cgtccctact gccggtctgg tgcgtaaagg 120
tcccgaaga agtacctaag agcccagaag gaaccatacg taataaagtt gaaggcgtaa 180
cgcaactgcc tttatgttcc taccattttt agaaggtaac cggagtagtt taagtagctg 240
gtatcgtgtt agacgtacat catgtaaaat gttcatcgga agttatcgga actgctgctg 300
cttttggcct cgggcccgga taggctttcg gaatgcggta tcctaggcgt atgac 355

<210> 51459

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-D9

<400> 51459

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gttttataag ccaaactgat ttggtatggc agaggttgga tgaggatgaat ggagatgggg 120
gttttcttac tagcaacttc acaccattta aggctgaaac tccaagaaat gattcatgga 180
atgaacagca agctatgacg agtactgctg attatcttgc tcaatttgac aactccactt 240
ctggaaactc tgatctggag ctagctatag cacttcaaca gcaagagttt gagcggcaac 300
cacaaggtt ccaagctcca tcaccacagc agcagcaaca acaaccacta cctcagacgc 360
agcaccaacc agtcaatc 379

<210> 51460

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E1

<400> 51460

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cacgcgttac agtaaggag tgccgtcccg cactgattgc atccccgttc gtttactaa 120
ctagaaagta tcgatcccag gtgtcgattc agccacctac ctcgtaataa agcataccgt 180
cggatataat gacgccaccg gaggacgtgc tagcggtaga aacgagccgg cccttaaagc 240

ttgcacccac tattacgcgg cggcgggcgc ctcaaatttg aacgtcgtgc attccacttc 300
 ctgaggtacg aaaatatcct actcttgccg gtaacgctag aacaatatcg tctcctggac 360
 ggtttagccc ccagaggaat actcaaagac cgtttgcgct catcacttcg g 411

<210> 51461
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-014-Q1-K1-E11
 <400> 51461

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 nctgaaaccc tccaatngn naaatgactg gnntcatgga cctcataggt actcttagag 180
 tagcttgaga ctatgactgt tattgggtac ctctgtacaa atgtattccg cataaacgct 240
 ttaaacttga gggcaataac ttagtgtgtc gtatctctta tttgtttgtt ctctttcaga 300
 cgattaccta gaaagcgcta gctanagatt cagagctcgt aaatgcctta gaaatgccaa 360
 catgtgctag aattcgtgtc tagtaaaaat aaatacctcn ntctcagtta agaaaataaa 420
 aag 423

<210> 51462
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-E2
 <400> 51462

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 ggccgttata ccaactcaacg attcagtcgg tacatccaca ccgtaacagt acaactccgaa 120
 actcggaaca cccgattatt attcttctag tcattcggcc gtacgttata gactcgaaac 180
 ctcgaaacgt cgcgatcgcg atcgcgaggc acgaaaaaat agcgcaaaca atgtggccgt 240
 tcatgcatat gcgcgatacc ccacatatgc gtaag 275

<210> 51463
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-014-Q1-K1-E3

<400> 51463

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gttacccccg acggttaccc aggagacaag gcgtaagcc atccgaaagt caattccccc 120
agtaatacaa cgaaagagtt ctctcctcgg ctcagtttct aagaagtaac aaagaacgta 180
catcgtctca taaataagca cacctcagaa aacattaaat aatccggatt aagcggcctg 240
atagtagcca tcgtcaccgc agccgacggc aaggatacgc ggacagtaaa cgcangtgat 300
ctcagagtcg ccgcgcgcga aagaggtctc gtcaagtagt ctatcgccga ttacgagttt 360
tacgaaatca acg 373

<210> 51464
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E4

<400> 51464

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gtctgtatcc ttagcctcat cttgaggggg ctcctcttgg taggcgtggg atggagtcgg 180
attatgggtgc tgtggtggct ggtcatgggg ctattgtgga tggattaag catcggtcgg 240
ctaagaatct gcgggggttt gagcggggtg agaaggggca tacttgtacg gtgtgtgatg 300
cggttgttaa ggagggatat cgtgggtactg ttacggaggt acctcatcgt gctaagattc 360
cgtttaattt taaggcttat gttgctgctc a 391

<210> 51465
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C10

<400> 51465

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cgaatctggg tgccatgcct aatctggagc agatcaatgc tctgatcaag cactacggcc 120
caaccgtttt cttccaccgg caagagacgt acttaccgtc atcagtttct tggttctttg 180
agaacgggagc tacattgcac gagaaagacg caaaaatggg agatgcaata ctccctgggtg 240
gcttgaatct gcctgttggg gggacaaaacg atggcgagta ctggattgat ctccctgatg 300
atgacaggaa agagctcgtc ag 322

<210> 51466

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-014-Q1-K1-E5

<400> 51466

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ttgtatcctt gctcgattca ctaactacaa ggtatcgatc ccaggtgtcg attcagccac 120
ctacctcgta atatagcata ccgtcggata tagtgacgcc actggaggac gtgctagcgg 180
tagagacgag ccggccctta aagcttgac ccactattac gcggccggcg gcgcctcaaa 240
tttgaacgtc gtgcattcca cttcctgagg tacgaaaata tcctactcnt gcgcgtaacg 300
ctagaacaat atcgtctccc tgacggttta gccccagag gaataactcaa aga 353

<210> 51467

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-E6

<400> 51467

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aaaaaaaaaa aaagaagga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaac aaaaaaaaaa aaaaaaaaaa acaaaaagca aaaaaaacac 180
 ataacaggca aaaacccaaa aa 202

<210> 51468
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-A1
 <400> 51468

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 ccgtcagact ctgataacga tatcgtgccc gccggcgccc ccgacggata cggaggaaaa 120
 gcagctgtta aacctcgcgt aaaacactca tatagagaag cctctaggag cgaagtccac 180
 gtagtcggcg attcgggcgt cgctcgcttat agagtccatc ctagaacgga cgaaacgacg 240
 tgaggctaaa gaggacggtg ggaatcctaa gtatccggag acaagacaaa ctagcccagc 300
 ggtacaacag aaggtccaac ccggtctctc aaagtaagcg acctaaacga cagatacgac 360
 gaccgggtcc ccgaggaggg attatatctc gaccccatcg ggttaaaccg cgggagcata 420
 gttcgcgc 428

<210> 51469
 <211> 103
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-A10
 <400> 51469

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 cacttggaca ctgtccatca cttacatata tcaccttaca cat 103

<210> 51470
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-014-Q1-K1-A12
 <400> 51470

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 gctcttctct ggccgcgcgc atttgcccgg atttcctgca gccgagcgc cctgcagctc 120
 cctgcacctt catcctgcgc gctccagtcg accgcgcact gggaccagcg cagtgccag 180
 ccgagcagcg cgacgcccg aggcgttcat gtgcttctcg gactttggcc gctggatgg 240
 gtactctgcg ggatccgcaa cctcctactg agtcccgca cagaggggca ggcattgtgag 300
 gctttcgtag gaagtgcagg cagccggcgc tcgacaccaa gcaagccttg cgcttat 357

<210> 51471
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-A3

<400> 51471
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 aaaaaaaaaa aaaaaaaaaa aaaagggggg gttgtctcaa aagacttaag tccatgcatg 120
 tgcgtacgtg atgctacagt ctctcacag cgctattcaa acctaaccta acggttgctg 180
 ccccaaaatg ctgcgatcgg gaaaatttcg gtgccattta atccaactgt tccgtaataa 240
 aacttttccc tgtagtcgg tgcaacagtt aaaagggttg gattgaatgt ttcccttaat 300
 agccgtgtaa ttcgaacggt taacgggatg tgtttcgcaa tgggtgtacca agtgtggtgg 360
 g 361

<210> 51472
 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-A4

<400> 51472
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 tcatcgtcgg cacagagttg gaggacgcgg tagaatgtcc gacggatcat gggccttatg 120
 tattgattac gctacggttc gccttcggta tatccacgac cgaattaatc caaagcg 177

<210> 51473

<211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A6

 <400> 51473

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 ccatacggga cgtaccggaa aggataagcc cggcgaggaa acgaagaaaa atgtctaagt 180
 cgtaggagcc atcgtctacc atcatgagga cgagatcgtc ttcacggtta tacgcgtcgc 240
 acgcgcgcgc ggcggcgaaa ggctaccgac cgtaaactcg ctagtggtaa atcgccataa 300
 actcgagtac tcaaagagat tagagaatcg ggtatcagcc gaaaaggtaa aacataactca 360
 ta 362

<210> 51474
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A7

 <400> 51474

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 gtcaacaaat tattattagt cttcttgggg atcccgttca acgggacgcg ggccttcggc 180
 gtcttaataa ggttattggt gtaagttttc ttattttcgt tataagcctt attgtttttg 240
 ttctacgtat tcttcttcgt atttacggga acgtttttca ggaccttctt atttttcacg 300
 ggcggcgccct aattcttggt gttcttctta ttgctagccg taaacggc 348

<210> 51475
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-A9

 <400> 51475

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 ttcttggagt tggtgccctt ggtcttttga gttttgctac aatagcatct gctgatgaag 120
 ctgagcatgg cttggcagcc ccagattatc cctggccaca tgctggcatc atgagctcgt 180
 atgatcacgc atcaattcgg cgtgggcatc aagtttacac gcaagtttgt gcctcttctc 240
 actccatgtc cttgatttca taccgtgatt tggttggcgt ggcctatact gaagaggaaa 300
 caaaggcaat ggctgctgag attgaggtag ttgatggctc taatgatgaa ggtgaaatgt 360
 tcacccgccc tggtaaactg agcg 384

<210> 51476

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B11

<400> 51476

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 gcggtgtcgt tggaagtagc cactcgcagt cccatcatga ggagattgtc ctgcctcttt 180
 ggctccctca aacttagtaa cagcaactgt gagccagctt caagccggtt cactgaggtt 240
 cgcgctgct aggtaggtag tgtcttctc cagttttgca tgctgcatca agagtgtatc 300
 tctagatagg caggcaatca tccaaaaagg atttgtagaa gcctgtgttc atttcatggc 360
 catggggcag tgccatcggg aagaaagttg tgtgca 396

<210> 51477

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B12

<400> 51477

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 aattcttgag aaccctaag acaacaccaa ggttcactta atttatgcta atgtcacata 180

tgaagacatt cttctgaagg atgagctgga cgacatggcc aaaacctatc ctggccgctt 240
 taagatctac tatgtgttga atcagcctcc tgagaactgg aacggtggtg ttgggtttgt 300
 gtctaaggaa atgatccaat ctcatgtgcc agcgctgct gaggacattc agatcctgag 360
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<210> 51478

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B3

<400> 51478

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 cgcgaggtag caactaagga agaagccgcg aaaaaggcct ctaaaataaa cgcctaggtc 180
 tccgcagaac cgaatgcgac taagaattct gtcggcctag tcgccgtcgg tgtctccggg 240
 ggccctaacg tttacgtaag caataccgcg gtgggttactc ctaccgttat cggctaggat 300
 ttcgtataga atgcgagag cctttagcgc actattacgc cggaagtcac aaacgacggt 360
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<210> 51479

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B4

<400> 51479

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 ggagcctaga ggggtgtata ctatcggacg ttgtcgataa agcccgaact cctcacgtaa 180
 tgaataatga gtcgctggc gtagcccgcg acccttcggt aacctgccct cacgcgaccc 240
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 ctactgggaa ttaatcaacg aagtatcgtg tgtttaccoc ttttacggcc ctctcgcaac 360

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403

<210> 51480

<211> 302

<212> DNA

<213> Zea mays

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<400> 51480

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ggggtcagtc ggaaaggctg ggagttacgg ggagggggtg ggcggagtcg aagtggactg 180
agaataagac taattgttag gctattcctg ttaagtgttg taatggttcg tctaagaagg 240
tgcattgagtc tcaatagtct cgtgatgttc aagctgtgtc tactgctgca ctttaattgtg 300
gt 302

<210> 51481

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B8

<400> 51481

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cttcttgatt gattgggttac gagtcattag gtcttcttct tgggtattct agttcatttg 180
ttgttgggta tgggttcattt cttgttaggt tagttgtagg tgcatttggt gttggtacat 240
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ggtggtaatg atggctcttc gaaaggacgt ccggttgtct ctcgtcgtcg tcgtacgtct 360
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<210> 51482

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-C1

<400> 51482

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ctacttttta tttttaaaact tacgttgtct aggcgggaga ctaacggcg ttcgtctgat 180
tctatcggac tctagctttt acgctgcttc ctcactctct gtgctatccc gaccccgctc 240
ctcagcccca ccccgctcct accggggcga ccagcggaaa cccctctaac ggctagagag 300
ggctaagccg gcggatccgt attttatgga ggtacggacg ccgagttcgc ctctgaggag 360
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<210> 51483

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H9

<400> 51483

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acctgccgag cagcacccta tccacatgga cttctcgcgc aatgaagctt ggctgcaccc 180
atcacaccac cagcatcccc atgaacagaa ggtccttcac tctcgccta tcggaccagc 240
tgggcatggt gggcatccag gccatgttgc ccatcctgtg catgccgtgc atgttgtgca 300
tcaccatcct actggctatg ggatgatatc agatgcacaa catactcttc agatgatgca 360
accacagctt gagtcacagc ttc 383

<210> 51484

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G3

<400> 51484

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gtcctgaagg tttgcttgag gactactgac agtacagtta atacatcaga gattgcaaag 120
gcatatggcg gaggtggaaa acgaagttag agttcattca ctctaagaat ggatgagttc 180
aacatctgga cttcagtga ctcattgaatt gaactggaga ggtcacatag tgttcataact 240
gtgggaactc gcaaccagct catctgggca tggattccct cagtggtgaa catgtgaaga 300
tggggtggtc tttttgtgct ccggtatgag agggaggaaa acaaaatctt agtctaacct 360
accatgttga tatgagctta caggagaata atctcttcga tatgaatgac tggagagcaa 420
tttggaggca taatgctt 438

<210> 51485
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G4

<400> 51485

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ggctggcctc gctgtaacat atggacttaa tttaaatgct cgcattgtcaa gatggatatt 120
gagcttctgt aaattagaga acaggataat ctctgttgag cgcattttatc aatattgcag 180
gcttcttagt gaagcaccat tgattattga gaactgccgt ccaccatcat catggcctca 240
gaatggaaac attgaactga ttgatctcaa ggtccgctac aaggacgatc taccattagt 300
tcttcatggt gtaagttgta tgtttctctgg cgggaaaaag attgggattg tagggcgtag 360
tggaagcggg aaatctactc ttat 384

<210> 51486
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G5

<400> 51486

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tgatgcctct cagcctataa cattgatgac agtgactagt gatactagtg atcatgctgg 120
cgaatgctag acgtcattac catacagcag gccagcagcc agtaaggagc tccacttttg 180

cagcctgcc a ctctgcttct tccactcctg aaaccgagcc tgcaggtgca ggcaatgcgg 240
 ttgcttgctg gaggccttat ccaatcagtg aaggcactaa actcgcaaag ccgttggaat 300
 ctgcgagcaa ggtcatgcac atcttggttg atgaagttaa tacagcctgc actgcaactc 360
 ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg aggggtcaaaa tcttctt 417

<210> 51487

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G6

<400> 51487

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 ggggagcggg aagtagcagc acacccacct tcattctcat aataatgctg tccagacgca 180
 gccatgatct aattagaaac ttcttgctca aggatgttcg ttcttaacta gtcgtgcgca 240
 ctgattaatt cagttcatgt tgatatggtt gtcttaccat tgctagcaga tcattaatgt 300
 ctgatatggt ggcttaacac atcttggttg atgaagttaa tacagcctgc actgcaactt 360
 ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg aggggtcaaaa tcttctt 417

<210> 51488

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G7

<400> 51488

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 gttcattaat gagaagtgtg gcaccagccg ggatccaaag ggccacctga atcaagaggc 180
 tgggcttggt ccaagcttga atcctcttgt gaaggagttt ctcaatgctg ctgatgacaa 240
 gcggaaggaa gtctctctta aaatagaaga ggatgttgct aagctcagcg gttctgcagc 300
 caagcatgga aagatatatg tgacagctgc aaagaagatc atagacaagg gctctgacta 360

cactaagaag gagactgaga ggcttcaccg catgctggag aagtcaatca gtccttccaa 420
agctgatgaa ttcattc 436

<210> 51489
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G9

<400> 51489

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gagtctgtac atgatatgga tatcgatggg gacaatggga ggcgtcggaa acgggtcaaaa 120
agcacaacaa gcccggtcaa gaacaatcac acagaggatg gcgggtccgt atttattggc 180
gaagatactt acaacgggag tcagcaaggg acagaaagcg aagactatac taaattcact 240
gtgctgaagc tgaagcagga gctcaccaag cacgggtttg gtgctcaact actccagttg 300
aaaaatccca acaagaagga tatcggtgcc ttatatgaaa agcatgtcat cggcaagtag 360
ttctctggca atacttgtat ttatgcttta tag 393

<210> 51490
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H1

<400> 51490

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gtggaggtgc gcactacctc gcaacatggc aagctggagg tgctttcgga gcagcagttc 120
gtcgactgcg accacgagtg tgattcatcg gagcctgatt catgtgattc cgattgccat 180
ggtgggctaa tgacgactga cttcagacat ctccagaacg ccggtggcct tgagagcgag 240
aaggattacc cttacactgg gagtgatggc aaatgcaagt ttgacaagta caagattggt 300
gcttcagttc agaacttcag tgctgtgtct gtggacgagg ctcatatttc tgctaacctc 360
atcaaacatg ggccattggc aatcggcatc aatgctgact acatgcatac atacatggga 420
agcgtgttat gcccatacat ctgtggcag 449

<210> 51491
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-H10

 <400> 51491

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 agcacaggcg gtggcagggc cgaagccgag tgcgatccca agtccctggt ggtgtgcaat 120
 cccgcattca tggacggagc gaaatcctcg tcaacattct gttccaccct gcgttcccag 180
 gacgtatgct tgtgcgtgta cgccaaagac ccctactttg ccaaatacat caacaaccac 240
 aacattgcct aaagctttat ctcgatcggc atatgcttac ccaaattgctt agcaagcgct 300
 ctgcgtcgtt gctgctcttg ctcttgctat agtgagcaac atattcagct tatgaataca 360
 ttatgtggat cagtttagaa aaaaaggccc cccccttttt 400

<210> 51492
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-H11

 <400> 51492

 accacctcca cctcgtcgtc tcccaccacc gccgagcgcg agccctagcc cgatctaggc 60
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 cgctcctcgc actgcaacac gcccggaacca cgggtgcattt gatccgtccc ggccgcctac 180
 acgatgtcca agtcgggagc gctggatctt gcttctggcc tcggagggaa gatcaacaag 240
 gtggaagtca agtcggccgt cgatgagtat gagaaatata atggatacta tggaggggaag 300
 gaggaagcaa ggaagtccaa ctatactgat atggttaata aatactatga tcttgccact 360
 agcttctatg agta 374

<210> 51493
 <211> 382
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-H2

<400> 51493

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ggaggaggag gaggaagcaa gtatccatct gacagcaggg tgccccccaa tggcgacaag 180
atcgacatct acgatttcgg cgtgatacct ctcgaggtcg tgaccgggag gcccatcacg 240
tccatacacg aggtggaggt catgaaggag cagctgcagt cggcgctgac gtcggagagc 300
ccggngcggc ggaaggcgct ggtggaccag gcggtgagcc gggcgctgctc cgacgagtcg 360
gcgcggacgg tgatggagat ct 382
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<210> 51494
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H3

<400> 51494

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gacgcaatta aatgctaact cccgactaga aactaagga aacgataacc atagctacac 120
agaacttgag cagtgtctgt ccacccgtaa gcacgcaaca cagtccagta tgtagccgat 180
gttgtagacg ttgattccga ccagaaaggg ccaggtacga caccagagca acctgtcaag 240
cgaagggcac acaacctgcg actaggactg agaactctgc tgcgaaatgc accgagacaa 300
ggaacacca cataacagat attgtgttgt cgcgcatcaa atggggcaac acatgatccc 360
tagctagggt aactcgagct attacgcaga ctgggctaac tcacgtacga 410
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<210> 51495
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H6

<400> 51495

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cgcttggtcg tgactcggag gggccaagg gaggtgggac gtttttcggt cgaagcggaa 120
aactagcggg aatggaagg cgaggcagtc ggcaggccga gggcgggtggc gccggatacc 180
ggctggtgcc ggtgcaccca aagtgcgaca atgttcgttg ccagaagctg caccgcctac 240
ttgcgtctac gtcatgcgag cggatgctgg cgccactctg caagcaaaga tagatgaatt 300
caagcccaat ctttcagatg atagctgac 329

<210> 51496
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H7

<400> 51496

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gatggacgga gcatacgggt taatcatgct aacgagaaga ccggtggctt tcgtggcggc 120
ggtggctatg gtggcggcgg ctatggtggt ggtggaggct atggtggtgc tggaggaggc 180
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gactatggtg gcaactacag caacaggggt ggtggtggtg attatggagt tgctggtgga 300
ggtggaggca actttactgc tggaggtagc gacagctttg ccaacagtaa ctatggttct 360
gacagtagtt ttggtggaag cggtgctgga ggctatgatg caaccggcgg ttccacaggc 420
gaagatgggt tctctggcac acc 443

<210> 51497
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-G2

<400> 51497

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gcgggcagct gccgcactgc tcgtggccgc cgccgtggcg gtgtccgtcc tgggtggtggg 120
cgcggcggcg gtgtgcgaca tgagcaacga gcagttcatg tcgtgccagc ccgcggcggc 180

caagacgacg gacccgccgg ccgcgccgtt cgcaggcgtg ctgcgacgcg ctggcggggg 240
cggacctcaa gtgcctgtgc ggctacaaga actcgccgtg gatggggcgtc tacaacatcg 300
acccaagcg cgccatggag cttccggcca agtgccgnct cgccacgccg tccgactgct 360
agcagtgtgc tagccaagcc aagccaagca gggaggcccc cggcattgct agctgtacgt 420
gtctgtgtgt gcatctgcag cagggtgc 448

<210> 51498
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E9

<400> 51498

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acgccttcca cggcgacaag gccacggcg gcgtccatga cggtagcgag atcgtgctct 120
ggaagtgggtg cgagggcgac aaccagcgt ggaagatcct cccttgggtga acgaacgaaa 180
gaaactacta gctggtaccc taataataat tctgctggct gcggcgatcc caaaataaaa 240
gaggccgggt gcgatgcac tcggacttct cgagtgggtg ttgcgtcaga cagccagcca 300
ctgtggggct agtggttcaa catttgctcag cctgcttgcg cgaggaaggg gggtcactga 360
ctcaagagaa gggcctggtc ataggctgct gcattatgaa tttctgatga tggctta 417

<210> 51499
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F1

<400> 51499

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ggaccaatth gatgatctga agaagacctg gcttatcaaa aggtgtcgga caatgaatgc 120
taaactaagc tatctggagc atcatctatt gcgtgacact tacaccaagg acacagtacc 180
agcactgcac aggatcagga agtatcttgt agaggccaca aaagaagcat ccaattctta 240
taatgaagcg gtttcgcggg tgcgtgagta ccagggtgta gatccacggg tcgatgtgat 300

tgcgaggcag taccacgaga ttgtaaagaa actggagggc atgcagtgga caattcacca 360
 ggtggagatg gacctgaaac ctcacatga ccacgcagct gtttaagtcc acatctgttg 420
 gaggccatgt ttattacctg aatgcagc 448

<210> 51500
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-F10

 <400> 51500

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 cttgacggct gctgatgcag ttgcaaccaa tgggtgtgaac cctggaatt ggagagacac 180
 ctctactgat ggtattaatc tgcacatgac acaacacaca agttaaatca atacctctga 240
 atgggtggcc tttaacttct cagtgcctaa aattgggtata atttgaattg ttgctatctc 300
 actgtgttgt gtactcctc cgtttcgttt tagttgtcgc tggatagtcg aaaattaaac 360
 catncagcga caactaaa 378

<210> 51501
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F11

 <400> 51501

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 tccttccact ttgctcacag atggaatgga gaatccttac gtgaaagcat caagcgacat 120
 gagcattttc ttgccctgca acttgggttg aaaccaggaa tgaaggtttt agatgtgggc 180
 tgtggaatag gtggaccact gagagaaatt gcaagattta gctcaacttc agttaccgga 240
 ttgaataaca acgaatacca gataaccagg ggaaaggagc tcaaccgttt agcaggaatt 300
 agtggaacat gtgattttgt caaggcggac ttcattgaaga tgccgttcga tgacaacact 360
 tttgatgctt gttacgcat tgaggcaaca tgt 393

<210> 51502
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F12

 <400> 51502

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 acaggacacc ttatctacaa gcttggaggc attgacaagc gtgtgatcga gaggtttgag 180
 aaggaggctg ctgaaatgaa caagcgggtcc ttcaagtacg cgtgggtgct cgacaagctc 240
 aaggctgagc gtgagagagg tatcaccatt gatattgctc tgtggaagtt tgagaccacc 300
 aagtactact gcacgggtcat tgatgcccct ggacaccgtg acttcatcaa gaacatgatc 360
 actg 364

<210> 51503
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-F2

 <400> 51503

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 gttggtggat tccccaggaa ggagggaatg gaaaggaaag atgttatgtc taaaaatggt 180
 tcaatctaca aaaccaagc atctgctctt gaagcccatg cggcccccaa ctgcaagggt 240
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 atttctgaga gacttagtgt ccaagtcagt gatgtgaaga atgttatcat ctggggtaac 420
 cactcgtncat ctcatgacct tgatg 445

<210> 51504

<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-F3

<400> 51504

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catggccccc tgggtgcagtg ggtgccagat gatggccccc gtgtacgcgg actggccag 180
caagtaccct tccgcggtct tcctcgaggt cgacgtggac gaactgctgg aagtcgcgaa 240
gatctacggc gtccatgtga tgccgacctt ctgcttcata aggaacggcg agacgctcga 300
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aatagcgcgc gcgca 435

<210> 51505
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-F4

<400> 51505

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gaagttcttg tatgacaact gggactgttg tcgcatacgc acttgagtac aatgatgaga 180
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ttgaagggga cagtggaagc ctcataatct taacaggaca agacggtgag aagccgcaac 300
ctataggaat tatatgngt ggtacagcta accggggaag gttgaaactt aaaagtggcc 360
agggtcgga gaactggaca agtggagttg atcttggccg ncttcttgat ctcttggagc 420
tagatctgat cacaac 436

<210> 51506

<211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F5

 <400> 51506

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaataaaa aaaaaaaaaat aaaaaaaaaat aaaaaaaca aaacacaata 180
 taaaaccctt atattatcca ccaaaaactt aaataaaaaac atcttatatt catccaataa 240
 ataaaattta aaaggaacac tgtaaaaaaa cataatcatt ataaaa 286

<210> 51507
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F6

 <400> 51507

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 tggttggaaa gtatactggc ctgtcagact cctacctatc tgttataaag gctcttttgc 180
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 aagattctac agcaaaagag actcctgacg cctatgaaaa ggcattggag tcgttgaagg 300
 gtgcagatgg tgtgttggtg ccaggagggtt ttggagacag aggagtccaa gggaaaattc 360
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 aaattgcagt ga 432

<210> 51508
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-F8

 <400> 51508

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 aggggagtggt tcagtgtagg gaggtccttg gttgattttg ctgcgatggc ggtcagccaa 240
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 gtaaaggcct cgtagtgtta ccctgcctcg cctcctcggg agaggtgtat gggaagtcgc 360
 gatcccttgg aagatgggta acatgacttg tgggtaaaga tgtgcaacct ctgcagagtg 420
 taaaactggt atactagccg tgc 443

<210> 51509

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F9

<400> 51509

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 cagtaaaggg aaagggcaaa tccaaagtct gatgcttggg gtacatagtc ggcagcattt 180
 tgacaagaaa gcgtccatta accagctcct gatgcctctc cttttgtacc atcttgccaa 240
 ctccctcacc cccccagct aagggtgctga agaccgctat gaaacgcagt ctgatagacc 300
 ccatagttgt ctctgcatc aatgctccta aggagttagc cagttagggt tcggactctt 360
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<210> 51510

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G1

<400> 51510

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cccaaaaaaa tgatcttaag gtattaagtt ttaactcagt ctcccacatg gcaaaattct 180
 tgtctgaatt ttcttttaaaa agtgcacttt tactttttaat tgtacagaat ctggagaatt 240
 gtagagtatc aagttaattt tgttctgttt aagatatgta agaaagtaca taaatgtact 300
 ttaaattggg gaatattttg tttatagaaa gacttaaagc ttcaattttg tgttgatttt 360
 ttagattgat accatttt 378

<210> 51511
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G11

<400> 51511

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 gggcagcgcc gcggctcggc ggttcgcgtg ggccgagatc gagtccgtca cggcgggggtt 180
 ctcgctccagg gtcacgcggc agggcggcct cagcaccgtg tacctggcct gcctctctc 240
 ctcccgctc ggcgccgtca aggtgcagcg cagcagcgag cgccttcacc gcgccttcgg 300
 ccaggagcgc gacgtgctcc tcgcgctccg acaccgcac atcgctccgcc tgctcggata 360
 ctgcgacgaa cgagaggaag gcgtgttggt g 391

<210> 51512
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-G12

<400> 51512

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 gtgatgatac tcctgactat actattttcg ttggtgattt ggctgcagat gttacagatt 180
 acttgttaca agagacattc aggggttcatt atccctcggg gaaggggtgca aaagttgtga 240
 ctgataaatt gacaatgcgt accaagggtt atggatttgt gaaatttggc gatcctacag 300

agcaagctcg tgcaatgact gaaaatgatg gaaatgcctt gtctttcagg cctatgcgta 360
 ttggtcctgc agcaagtag 379

<210> 51513
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D3

<400> 51513

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 gatccgcgac gggctcaagg ctgaccccaa gaagtaccgc aagatgaagg agaggcttgt 120
 cggcgtctct gaggagacca ccacgggtgt caagaggctc taccagatgc aggagaccgg 180
 cgccctcttc ttccctgcc a ttaacgtcaa cgattccgtc accaagagca agtttgacaa 240
 cctgtatggt tgccgccact cgctccctga tggctctgatg agggccactg acgttatgat 300
 cgccggaaag gttgccgtgg tctgcggata cgggtgatgtc ggcaagggtt gtgctgctgc 360
 cctcaagcag gctggtgccc gtgtcattgt gaccgagatc gaccccatct gtgccctnca 420
 ggctctgatg gagggctctc 440

<210> 51514
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D5

<400> 51514

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 tcctgcaact gagaagctta aggttctcca cttccacaac aacatgacgg gagatgaagg 120
 tgctatgtat attgctgaga tggttaagcg ttctccgaat gtagagagtt tcagggtgctc 180
 agcaacaagg ataggatctg atgggtggagt cgcattgtct gaggcattag ggacatgcac 240
 tcgcctgaag aaacttgatc tcagggacaa cttgtttggt gttgatgcag ggtagctctc 300
 cagcaaaacc cttccaaagc ttctgatct tgttgagctt tatctcagtg atctcaatct 360

agaaaacaag ggtactatag caattgccaa agccctcgaa cagtcagcac cacagttgga 420
 ggtccttgaa atngctggaa atg 443

<210> 51515
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D6

<400> 51515

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 atcttataat gcacgatgga aaatgcctta tgaagagagc ggatctagat caaatttgta 180
 ctactctttt gaagttgctg gtgcacacat cataatgcta ggttcataca cagattatga 240
 tgatagctca gatcagtatg cttggctaaa ggctgatctt gccaaagggtg atagaaagag 300
 gacaccctgg ctcatgtgtg tgttgcacgt accatggtac aatagcaatt gggctcatca 360
 ggggtgaaggc gacagtatga tggcttcaat ggagcctttg ctgtacgctg ctcatgtgga 420
 tatggtaata gcaggtcatg 440

<210> 51516
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D7

<400> 51516

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 atcttataat gcacgatgga aaatgcctta tgaagagagc ggatctagat caaatttgta 180
 ctactctttt gaagttgctg gtgcacacat cataatgcta ggttcataca cagattatga 240
 tgatagctca gatcagtatg cttggctaaa ggctgatctt gccaaaggctg atagaaagag 300
 gacaccctgg ctcatgtgtg tgttgcacgt accatggtac aatatcaatt ggtctcatca 360
 aggtgaaggc gacagtttga tggcttcaat ggagcctttg ctgtacgctg ctcatgtgga 420

tatggtaata acatgtcatg t

441

<210> 51517

<211> 443

<212> DNA

<213> Zea mays

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<400> 51517

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agaacctaca gagccatgat aataatgaaa tctatgaaaa ggctgtgaag cttcttgaga 120
cttactggat ggaggaggaa gatgatgcaa tggctactgc tggggaagct gctcctgctg 180
tttttgactt tagccaaggt ggcaaccctc ctgggtggtg tttgaacctc aactgaatac 240
agtatttgac caaaaggggtg ttaattccct catgacaacc tagtctggtc gattccatgt 300
gggataatgg tttgtggttg gtccagtaaa ttcgagattt caaggagat gggtttagcat 360
tattcccaag ctgtcatgga tatcagtatc gcagggtctg taacaggacc ataatcgctg 420
aacatgagtc tgggtttttg agc 443

<210> 51518

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D9

<400> 51518

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caagactaag ccatccgagg agcacgtgat tgcgggatgg gcgccaagg tgaatgcata 120
agagccttgt gctttggtgc tacctggtgg actccatcca tttatcttat cagtctttgt 180
cagtgggtgtg gataggtgtc aagtctgtag cctagatgca tgattcagtt ggaattatgc 240
agtgccgtgt ctcgagtact cagttctggc tgttgcggtt gtgcatctta ccttctgttg 300
ctggttttgt ttgaggccat gggcatctct tggctctatg ctgtgagagc gctgtaatgt 360
gggtaccaaa taatggagct gcttttatgc t 391

<210> 51519

<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E1

<400> 51519

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agctacatgg tcgaaaagct tggctcctcag ggaaagcgtg gtggaggagg gggctggaag 180
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aagcgggaga ctccaaaacg gcggcggagg ataattgcac catacaagtg acatggacaa 300
cttcagtttg ctgaaatgca aattttctca actgtctttt gacattgtcc agcggaggctg 360
aagcaagaaa ctgtgaagta gtttggaaacc gccagaacag ctctgtttt tttcacagca 420
cagtagatgg tttgatgtg 439

<210> 51520
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E11

<400> 51520

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cctacggcga ggtcctcgag tcgaagatca tcctggatcg ggagacgcag aggtcccgcg 120
gcttcggctt cgtcaccttc tccacggagg acgcgatgcg cagcgccatc gagggcatga 180
acggcaagga gctcgacggc cgcaacatca ccgtaacga ggcccagtcc cgcggcggcc 240
gtggaggcgg cggtggcgga tacggtggcg ggcgccgtga tggaggcggc tacggcggtg 300
gcggtggaag ctacggcggt ggtcgtggag gctacggcgg cggtggggga tacggtggtg 360
caaacc 366

<210> 51521
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E2

<400> 51521

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aggtcttgct tttgctgaag aatatggatg tctgtttctt gagagcagtg caaaaacacg 120
agaaaacgctt gagaaatgct ttgaggaact tgcattgaag attcttgagg tgccatgtct 180
cctagaggaa gggctcttctt cggttgtcaa gaggaacatc ctgaaacaga agcaggaaag 240
tgatgcaaag aacggtagtg gatgctgtca atagatgtat gtgctgatcc acaccacacg 300
gttggtcttc ttcgtgtgag ctgccctgat tgtctgctgt acatgttctt gtgagtaaga 360
agggcgagca taattgattt gtacaaaaaa aaaataaatt ataattatta t 411

<210> 51522

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E3

<400> 51522

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gacgtccga ggccatcaag ctcatctggg cccacatcaa ggcccacggc ctccagaacc 120
cagccaagaa aacggagatc aactgcgacg ccacgctcaa aagcttggtt ggcgggaggg 180
acaaggttgg gatgctggag atcaacaggc tactgaacgc tcacttcccg aagaactagc 240
aagcagcagt ccgtggtgcc agtgatcgcg ctttggtaaa ggactttctt gtggctggcc 300
tcttggtgct catgtgaagt cccaagtccc actaggtggg tacacccgaa aaccatgtga 360
tgccattaag acttacagac tttgttcagc agttgggttt ttgggcgtga tgcattgtaa 420
aaggatcccc agtgtttccg tttc 444

<210> 51523

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E4

<400> 51523

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 tgctctgata atacaataaa gatcattggc gtaagtggaa cctcacacca gcagcttgca 120
 actttgagtg gacaccaggg ccagtatgg caagtcgcat gggctcatcc caagtttggg 180
 tccatgcttg catcctgcag ctacgacggc cgagtgatca tctggaagga aggaagcaag 240
 cctgatgaat gggcactggg acacaccttt gctgagcaca agtcctccgt gaattccatc 300
 gcgtggggcg ctcattgagc gggcttatgc ttggcttggt gttcatcaga tgggaacatt 360
 tcagtcttca ctgctcgttc tgatggaggg tgggatacca cgcgtattga tcaggcgcgcat 420
 ccggttggtg tgacctcagt ttcttgggc 449

<210> 51524

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E5

<400> 51524

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 caatatgttt tggaattaaa atatactact actactacta aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaaa aagaaaggca 240
 aacaaaaagg aacccaaatt taatccacac ggacttggaa a 281

<210> 51525

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E7

<400> 51525

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 tgatctgaag cgtttttcga taatatatga tcgaagtggg aggtctaagg gaacagctga 180
 agttgtatth gcaaggcggt ctgatgctgt agcggcgggt aagaaatata acaatgtcca 240

acttgatggt aagcccatga agatagagat agttgggacc aataactccaa ctgcatctgc 300
 tgctcttcca gtctccaatg gtggccatgc taggaatgct gtgaggagtg caccgagggg 360
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 tggatctggg ggtggtcgtc gtgg 444

<210> 51526
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-D2
 <400> 51526

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 cgcacagtca cactacagag cccagagccc tagtgtcttc cctccccctc cccatggccc 120
 ctcaccgect cctccagctt ctactgtctc tcgccgcgcg catgaccacc gcccggtccc 180
 agaccagtc accagccgcc gcgccatcca cctcaccttc ctctaccgcc gccgcgcgcc 240
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 ccgcgcgctc cccgtcctcg tcccacgcgc gcgccaaagt cacctncccg gccgncttcc 360
 ccgcgccccac cactcnccg accccaccga cggcgactgc ggcgctggtt cttctggccg 420
 cgtcgctgac ggtgggtccg atggt 445

<210> 51527
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-B9
 <400> 51527

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 aatgctatca ttgtgctggc tatcatctgt cttcagttgc catttgagtt ggcctatgct 120
 catctatatg agattacaga aactgaggct atgaagtatt tgttgactgc agtatatctt 180
 gttgcaattc aatattacac cagaattggt ggcaagggtg ctgtcaattt gataaagtat 240

gaaaacaacc aaggagaaga atcgagttcc gctagtttag tttataaggt ctttgggtctt 300
tacttttatgc agtcatatat tgggttattt taccatgctt cattgtatcg tgatatactg 360
gcccttcgnc aagtcctcat ccagcgtctc attgtgtccc aggtaatgga aaatctg 417

<210> 51528
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-C1

<400> 51528

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aggtacgcgt gatcttagct atggccgcgc ccgcgcgcgc cgcgctcttg gcgtcggcgg 120
ccgtggccgg acgagacggc cggcagacct acatcgtcca catgtcccat tccgccatgc 180
cggacgagtt cgcggagcat gaggaatggt acgcgcgctc gcttcaggcg gtgtcggatg 240
ccgccaccgt gctgtacacc tacagcacc cctcncacgg ctactcggcg cggctgacgc 300
gcgcggaggg cgcggcgctg gagtcgcagc caggggtgat cgtcgtcaac ccggaggtgc 360
ggtacgagct gcacaccacc cggacgcccg agttcctggg gctggacggc acggacgcgc 420
tgntcccgca gtcgggcacc gg 442

<210> 51529
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C11

<400> 51529

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tcgtcttcgg gtgtggccac aacaacgccg ggtccttcgg cgagatcgac gggctcttgg 180
gcctcggggc cgggaaggcg tcgttgtcgt cgcaggtggc ggccaggtac ggcgcgggct 240
tctcctactg cctcccgtcg tcgccgagcg ccacggggta cctgtccttc agcggagccg 300
cagccgccgc cctaccaaac gcgcagttca cggagatggt ggccggtcag caccgcgtcg 360

tctactacc

369

<210> 51530
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-C12

<400> 51530

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tcagggcgct ccgtgttcaa tctccttgcc cgttggtgctc tctctcttca ttcgttcccg 120
gcctcacccc gagccagtcg tctcgctagg gtttcgccgc cgccgccgcc atgcctcgcc 180
gcagctcaag aaggtctgcc ccacgcccag ctccccgtgc tgcttcaactg aggaaccgcg 240
cacagccagc acgccaggct cctnctncag ctctgttcg agatgggtgg ggctccatgt 300
ttggaagaat tgggtccacc attgctcaag gtatggcggt tggcacgggt agtgccatgg 360
cac 363

<210> 51531
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C2

<400> 51531

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gatcgaagag agttctactc aaagctcgag gtgaagattc atgcacagga actagataaa 120
agcaacttgc atgcaaaatc aaaggaaact gaagaagctg aactcaaaat gctgacaaag 180
agtttaaatt tcaaggcatc accaatgccc agcttctata aggaaccaac tagtcctaag 240
gttgagttga agaagatacc tacaactaga gctaggtcac caaagcttga tcaactcaag 300
aacacatcct caggagggac agaatggaat tcaaatcctt cagatcggtc atgtcgactg 360
agtctcgatg aaagggtcct ccaaaatggg gtc 393

<210> 51532

<211> 79
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-C3

 <400> 51532

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 cctctgtcnn ngcgcatc 79

<210> 51533
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-C5

 <400> 51533

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 ccatggagag gggcaggggc gagcgctagg gaggagaggg gctcgatgac cagcgagctg 180
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 gtgggggttc tgcattcgcc acgacaggga gaaatcccag aaggaagacc acgtgngga 420
 gcagccgtcc gtgcggt 437

<210> 51534
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-013-Q1-K1-C6

 <400> 51534

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gagctgatcc ttagtacaga naatgtcaaa gctgatctat ccaccaagac tctgactagt 420
gcagctggag caaactttac atatg 445

<210> 51535
<211> 443
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-C7
<400> 51535

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gttgagttca tcaagcagtc agataagtca gggatccaaa cccaacaatt ctgagatggg 300
gcttagcttc aatatgtgca agaagattgt gcagatgatg aatggcaata tttggtcagt 360
atcagattct aaaagcatcg gagaaactat catgctagtc ctncagttcc agttggaacc 420
tgtgactccg gtctctggag cgt 443

<210> 51536
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-013-Q1-K1-C8
<400> 51536

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ataagaccaa tgcgtatttc aaacgtttcc aagtgaatt caagagaagg cgggctggca 120

agacagacta cagggccagg ataaggctga ttaaccaaga caaaaacaag tacaacacac 180
 ccaaatacag atttgttggtg cgattttacca acaaggacat cactgcccac atcatatctg 240
 ctagtatagc gggatgatatg gctcttgctt ctgcctactc gcatgagttg ccacgatatg 300
 gtcttgaagt tggctcgacc aactatgcag ctgcctactg cactggcctt ctgttggttc 360
 gccgtgtgct caagatccgt gggttggtatc aggagtacga gggcaatgtt gagggcactg 420
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<210> 51537

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C9

<400> 51537

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 tgctgaaagc aaaatgctcg gtaaaggagg gtatgggtatg gtttataagg gagtcctgcc 180
 tgatggccaa gaaattgcgg taaagaggct ttgccagagt tctcgacaag ggattggaga 240
 gctgaagagt gagctagtagc tgggtggctaa gcttcaccac aagaaccttg tgaggcttat 300
 tggatgatgc ctgcaagaac aggagaaaat acttgtgtat gaggatatgc ccaatcgaag 360
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<210> 51538

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-D1

<400> 51538

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 tactgatgag gccgaaactg gtgggctaac aaaggaagag tatgggataa aacttgatgc 180
 gagctatggt cggtcggttg gcatagtga gcttttcgac aggttgataa tctttgaaaa 240

gattggtgat tcttctgttg tcaagatcat tgagtgtgaa ggtaggcat tagatgattg 300
 atacctacaa cccatgctgt agtttcatgt atcgcatggg agattacctn cagttccatc 360
 tcacttattt aaccaagttc caagtagagt acagcaagag cacaagatat cttgttaggg 420
 aat 423

<210> 51539
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51539

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 acaccggtga cgccgacaga ggggacggtg atcgcgatcc acagcctgga ggagtggagc 180
 atccagatcg aggaggccaa cagcgccaag aagctgggtg tgattgactt cactgcaaca 240
 tgggtgtcctn cgtgccgcgc catggctcca atttttgctg atatggccaa gaagggtccca 300
 aatgttngtn tcctgaaagt tgatgtggat gaaatgaaga ccattgctga gcaattcagc 360
 gtagaggcca tgccaacatt cctgttcatg agggagggcg acgttcagga cagggtcgtt 420

<210> 51540
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D12

<400> 51540

cccacgcgtc cggctcttctg ataccattga caatgtcaag gccaaagatcc aagacaagga 60
 aggcacccct ccggaccagc agcggctcat ttttgcccgc aagcaactcg aggaacggcc 120
 ccacgctggc caactccacc atcaaaaaga gaaccacctt caattgggtgc ttcgtcttaa 180
 ggggtggc 187

<210> 51541

<211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-B7

 <400> 51541

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 aactctgttg tcatctagcc atgaaggata ctaccctgtt gaacagaccg tacacttcaa 180
 caatactaaa gatgctgctg tccgtagaga accaggtatt gagcattcag cagtacctgg 240
 tctaagtcag gggagtgcga gttctgacaa gaaaggaatg gaaattcatc tgcctgaaga 300
 agataatttg ttaccatga gtgattctct gcttgggtcaa aattctgata ttttggcatc 360
 agtaggatcc agcaggggtg aagggctatt gcctgaaaag gcacttgata acctcagcta 420
 taggtttcaa agtc 434

<210> 51542
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-013-Q1-K1-A3

 <400> 51542

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 tgactgagga ccctttaatt ggtcacatgc ctcgtcatgg gcaagctttg cctcaggcag 120
 actaatacca gaaaggccaa catgcaatgg gagtggagag atggcgtgag tagcgtgtac 180
 cctccgtggc aagaggctgg acggtggtgt atctgtgctc tcggttggtg tgaaccagc 240
 ctggtcttaa gaaaccgggt ggagagttga catatgcaag ggttaagtgc tacatatgtc 300
 gtgtgattgg agatcctcag ctgagtatta atcgattcgg atcgtcgtta cttctcagat 360
 atgaagactt ggtcactgac ttacacgtag ca 392

<210> 51543
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-A5

<400> 51543

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gttcaaagcg aagatgaaga aatcaaaggg caaacgggat cttgacacgt gcccctcacc 120
aacaggttcg tcgccgacag attcagcaac cagagcatga aaaggtcaag agggccagtt 180
gcttacccta tgaccattgc ccgtgtttta ccagggctgg tcaccattgt aaatcattag 240
tgtttttctgg ccatcagccc ctaatcctta ctgtctctgt cagagctcat actcatgtaa 300
gcatcaggca actaggttgc tgatggctct aggctgaaaa aggatactga gaataaactt 360
ctgggtgtttg gttataccta tatcctgaac atggagtggg gtagatgagc tttaggactt 420
gcagtcttag canaatttcc cagt 444

<210> 51544
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A6

<400> 51544

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tgccagggtca atacttccaa gatgtgaata gggcgaggaga cattggtgag gctcaaatag 120
ccaagcttac tgggttttctg gtcttctgcc ttctgaatgc aactgctctc ttcatttccc 180
tcgcggtggt cgtcgtgcag atcaccttgg ttgcctggga aactggtgcc cagaagcaag 240
ttatcaagat cgtaaataag ctcatgtgga ccgcatgcct taacacaagt gcggctttta 300
tctcactggc atatgttgca gatggcccg cagcatgcctg gatggccttc acagtatcag 360
ccatcggagg tccgatcatg attggaacct tgctgttctt agcctatctg ttgatgcgcc 420
cacggt 426

<210> 51545
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-A7

<400> 51545

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tgcaatgccg ggtgccctta tacgtggcga caaagatggc atccatcagg aagtcttctt 120
tcatgggtccc atctgctgac acctatgctc gtgctgccgt tcgtcacatt ggatacgagc 180
ctagggtgcac accatactgg ccacactctg tcgtgtgggt cttgatctcc attcttcccc 240
agtcctttat cgacagcgtg cgcctgggca tgtgcattaa gatccgcaag aaggggctgg 300
ccaaggacgc caagaagaag gcgctgtgat tgatgtttca gaatgcatgt tcagattcgc 360
acatttcttc atcacctgta gtagacacgt gccttgctgt agtcacttta ttagctacca 420
ttacctnctg agtctgttaa gaatcg 446

<210> 51546

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-A8

<400> 51546

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tggaagcggg ggaaggattg gtacaggctt gatgggagca ctccatcttc tgatcgtcag 120
aatcttgtgg agatgtttta tgaccttgaa aacacaagag tgaaatgcac attgatata 180
actcgtgctg gatccctggg tatcaacctt catgctgcaa atcgctgggt tcttcttgat 240
ggatcatgga atccaacaca tgatctgcaa gccatttata gagtttggag gtatggccag 300
accaaacctg tatatgccta ccgnctaata gcacatcaaa caatggaaga gaaaatatat 360
aagcgccagg tgacaaagga aggccttgca acaagggtgg tggatagaca gcaagtttca 420
agaaccatct tcaaagaaga gatgctt 447

<210> 51547

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A9

<400> 51547

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cgggggccac cagctcacc ctcgcagcta cctccgcgg caagacttct acgagcacc 120

tcgcccccca tggccgggtc agcttcagcc acaccacgtc gctgcagacg gcgcccgggc 180

accgcgggct ccgagcaggg tgggcgggtgc gcgtgctccc gctgacggag gagaacgtgg 240

agaaggtgct ggacgaggtg cggccgagcc tgatggcgga cggcggcaac gtggcgctgc 300

acgagatcga cggcctcgtc gtcgtgctca agctgcaggg cgcgtgcggc tcctgcccc 360

gtccaccat gacgtcaag atgggcatcg a 391

<210> 51548

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B11

<400> 51548

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cgaaagaaac tactagctgg taccctaata ataattctgc tggctgcggc gatcccaaaa 120

taaaagaggc cgggtgcgat gcatctcgga cttctcgagt ggtgtttgcg tcagacagcc 180

agccactgtg gggctagtgt tccaacattt gtcagcctgc ttgcgcgagg aagggggggtc 240

actgactcaa gagaagggcc tggatcatagg ctgctgcatt atgaatttct gatgatgtct 300

tatgtctgta ctctgaatca actatgtatg agatctcatc tcctttctcc tactgaatga 360

atgaatcatt attggctttg ctttgcttca cctgcttgaa aagcatgcat tgtat 415

<210> 51549

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-013-Q1-K1-B2

<400> 51549

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ggcggtatgcg ctatcgggta cggtgaccga caccgagtgc atccacgagt tcgtgcccta 120
 tgagggcgac accgtgtccg ggaacttcgt cgtcgtcgac cacgacatct tctggagctc 180
 cgaccacca ggaatcgacc tcacggtaac gtcaccaggt ggcaacactg tgtacacatt 240
 gaagggaaaa tctggtgaga aatttgagtt taaagctcca agaggtggca tgtataagtt 300
 ctgcttccat aaccatattg gagcacctga aactgtttct ttctacatcc atgttgggca 360
 cataccaat gagcacaatc tggcgaaaga tgagcacttg gaccctatca acngtnaaat 420
 cgncgagctg aaagaagcat taga 444

<210> 51550
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B3

<400> 51550

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 acgatggcag tcttgcaagt tgctgtgtgt gcccctcccc ctgtctctgt gattgggttc 120
 gagggatttg agaagcgctt tgagatcagc ttctctgagg cacctgtctt ggctgacccc 180
 agcggaaggg gactgcgtgc gctctcgcgt gccagatcg actctgttct tgaccttgct 240
 cgggtgcacca ttgtgtccga gctctcaaac gaggacttcg actcttatgt cttatctgag 300
 tcgagcctgt ttgtctaccc atacaagatt gtgatcaaga cctgtggaac tacaaagctt 360
 ctgctcgcta ttccgaggat ccttgaactt gctgaagagc tcctgttgcc actcgctgca 420
 gttaaatact cccgtggaac g 441

<210> 51551
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B4

<400> 51551

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 gattatgggc tatggaacct ggagtgccgt ggtgctgcaa acatctcatg ttctattctg 120

aaatcttttt agatgtataa tacgtagtag ttgaattttc tgtaaaaaaa aaaaaaaaaa 180
aataaaaaat aaacaaaaaa aaaaaaaaaat aaaaaaaaaa aaatatataa taaaaaataa 240
aataaaaaat agtcgttctt tttaaaagaa ccaaaaatta aaag 284

<210> 51552

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B5

<400> 51552

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acggaagcga taattgatcc tgcagcaatt tttgcgatgc tggtcggtag cgagcttttt 120
gaggactaca ttggtcagct ggcgatggca tccatggctt cacttgatgg ttttactgaa 180
aacgaacaga tcgatccaag aaggttgcaa gagcaaatgc gagttgtaca aaaagaaaga 240
gaggagaaac ttgcagaggc actaaaagat aggttgcatc tttatgttca aggaaacaaa 300
gaggaattta tccagtatgc tgatgctgag gttactagac tctctaagtc cgcatacggc 360
gttgatatgt tgagtactat tggttatgtg tattcgagac aagcttctaa ggagcttgga 420
aagcaagcta aatatcttgg tgttcc 446

<210> 51553

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B6

<400> 51553

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ttaattaaga ggtagtgtgc atgggtgaaac aaagattatt aacatggctt ctagctgcta 120
ctgctactgc tactagcaat ttttgccctc ctggctctggc ctgccaaggc taccgctgct 180
gtatgaataa cttggagatc gaccgaaaaa ttacatgcat gtaagtagaa ggggttaata 240
aaggtggtat gcagacgaag atgctttttat tgaactaggg tttaagtagc tagaaacgga 300
tgggaactgt actttaagtc attatgttct gtgctcttag gggaacatgg ctcatgcgct 360

taaccttcaa taaagactgt aaagatgagt acgtggatcg gaaaaataaa gagcttggaa 420
agcaaaaggg cggtc 435

<210> 51554
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-A10

<400> 51554

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nccaagattg ttatcatagt ttaccttta catgactaac cttacacatg gttttgtatg 120
actttctttt tcagatgtga cctgtttgat gtcattgttg agatggatcg catactgcgc 180
ccagaaggaa ctgccgttat acgggcctcg ccagacgtag tagccaaggc agcacagatc 240
gtcagtcga ttccgttgga ggcacagggt catgacagt aaccagaatc aggcagtacc 300
gagaaaatac ttgtggctac caaaacattt tggaagctgc cactaacaaa acaataggct 360
aatgcgagtt tgaactttga acccttttca cttgcgcttc ctta 404

<210> 51555
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G11

<400> 51555

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gccggcaggc gagcgatttg attcgacatg aatcccgagt acgactacct tttcaaactt 120
ctgcttattg gtgattctgg tgttgggaaa tcatgcttgc ttctcagatt tgcagacgat 180
tcttatttgg acagctatat cagcacaatt ggggttgatt tcaaaattcg cacagtggag 240
caagatggga agaccataaa acttcaaatt tgggatactg ctgggcaaga gcgc 294

<210> 51556
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G3

<400> 51556

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tttatcaact cacctggagg ctctataaca gcagggatgg gagtatatga tgctatgaaa 120
ttttgcaaag ctgatgtgtc aactgtttgc tttggattgg cggcttcaat ggggtgcattt 180
ttacttgctg ctgggacaaa gggtaagagg tactgcatgc caaatgcgag gattatgatc 240
catcagccat caggtggcgc tggcgggaaa gtcacagaga tgggactaca gataagagag 300
atgatgtacg aaaagattaa gatcaataaa ataatgtcga gaattactgg aaaatc 356

<210> 51557

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G4

<400> 51557

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gtcttcgccg cccatggtgg cattatcttc aaatggctct aaagatagcg acaacgttag 120
ttagtcgcaa gagaaaggcc gcagttctgc ggctgcgagg ggaatagagc agtatgtcag 180
ctatacaaca tctatggcat gtgctttgct cctccacttg attatagccc ccgttgtgtg 240
tttcggtttc tgttttcctg gagtttttgg ttccaggctt ccgaccatgt tttgatccca 300
taaattcttc ttcagccttc gagcaactga atccatcttc gtaagtcac aaccctagcc 360
agacattgaa acatcgggaa actttaag 388

<210> 51558

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G7

<400> 51558

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ttggacctgg cccattacac atgggtatga atgtaattac aaggggctaa ccccaaaacc 180
ctaaatggga ttctaacaaa gttgtttttt ccgttggtgt taatcatata agtattagca 240
tttcagttga attttctact ctcaattata ttgaatgaac tgtttttacaa ttctagtatg 300
ttaattattc ctgggttgat gctttgagca gattgccttg cacatatata gagtcttctc 360
tatgtttttt 370

<210> 51559
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G8

<400> 51559
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ttatcgcaag ataaccgccg tattactgcg gctgctatgg gaataccccg acatgacagc 180
tataacaacat ctatggcatg agctccgctc ctcca 215

<210> 51560
<211> 239
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H10

<400> 51560
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agggcaaccg gcgtacggga tccaggatcc catcctcctt cctcctacat gctacctctt 120
atatattgta tcctgaaacc aatttacagt ccaactggccg acatcttaca aactgggtaa 180
ctccctaaac ctctcccatc tccaatctta ttgcctcat accacatttc cccttttgc 239

<210> 51561
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H11

<400> 51561

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tgtgaggata aagactgccg caggaagagg cggctacatc cgtaacatct cataccgcaa 120

cataactttc gacaatgtcc gtgctgggat tgtgataaag gttgactaca acgagcacgc 180

tgatgatgga tacgaccgga ctgccttccc agacatcaca agcatatcat tcaagggaat 240

ccatgggcag ggtgttcggg tgcctgtccg agctcatggc agcgacgtca ttcccatcaa 300

ggacatcagc tttcaagaca tg 322

<210> 51562

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H12

<400> 51562

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ctgatgcattg agcctgttgt tcttggttcg ttcctgagag ctagagcaat tggccttatg 120

cccatgattg accaggttga aaaggatgac aagataatag cagtatgtgc tgatgatcct 180

gaataccgtc actacaacga catcagcgag ctgtctctc accgtctgca agagatcaag 240

cgcttctctg aagattacaa gaaaaacgag aacaaagaag tcgcagttga tgcattcttg 300

cccgcgacaa cagctcaaga agccattcag tactccatgg acctgtatgc ccagtatat 359

<210> 51563

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H2

<400> 51563

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acagaccgag cggcctgcta ccaacaacac atcattggtg gtgccctctt ttagattgct 120

tattagtgtg aattcaataa taaagttttt tggatgatgt atgtggccaa ccagaaataa 180

gaagttacat ttccaaaaaa aaaactaaga tatacaactt atgaat 226

<210> 51564
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H3

 <400> 51564

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 gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa gaaaaccttt 180
 attaaactga aattaat 197

<210> 51565
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H6

 <400> 51565

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 ctccggcccg ccgccgccct cgtcttctca tgcattggcg cagcgtacgg gaccgcgaag 180
 agcggcgctc gcgtggcgctc gatgggtgtg atggggcccg agctcgtcat gaagtccatc 240
 gtgcccggtg tcatggctgg tgtgctcggc atctacgggc tcatcatcgc cgtcatcatc 300
 agcactggga tcaaccccaa ggccaagccc tactaccttt ttgatggcta cgc 353

<210> 51566
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-H8

 <400> 51566

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gcgcggcgctc gcctcgccgg ccgctggcgc cgcgtgcagg gccgcgggca aggggaagga 180
 ggtgctcagc ggggtcgtgt tccagccctt cgaggagatc aagggggagc tcgccctcgt 240
 gccccagtcc ccagacaagt cgctcgcgcg ccacaagttc gtcgatgact gccaaagccc 300
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<210> 51567

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H9

<400> 51567

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 caagataatg gtttcataga tgaagtctgc actgggcagc catccgtgct cacagctgct 120
 actgccaacg gagcaagaca tgacaaatgt gcaaataata ccagacatgg ttatggtgga 180
 aaacaacagg ggaggaccac tgggacgaca tacctttcca gaagatgaac caactttcac 240
 tgggcgatga tgctgctgga attggaaacc atgcgagtgg cgatgatgcg gttggggaaa 300
 ccatacgagt gacgatgctt tggcttcgaa atgatggtga agatgacctg gattaaagtt 360
 attctagatt caatttttat tttgcactat tgggtcttcac 400

<210> 51568

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D8

<400> 51568

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 atgagccatg aatgtgcata aaagaagatc agagcatcct catgttatat ctgctgaagg 120
 tttatgcatg tccagtgtgc cagtttatat acagaaaggc attgcaaggc ccagtagcag 180
 caaattgcag cctgccagta aaataccaga aatcagctca caaagcaatg ccagaatcac 240
 tccagcagaa gagcagaatg gaagcacagg caccctaaatt attcaagggt ccaacaatgg 300
 gtcaacgatg aacaaccag atgcacatca tgttgattac c 341

<210> 51569
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-E10

 <400> 51569

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 ctgggttatg gccccggggg aggaggtggc ggtggtggta gcggtggcgg tggaggcggg 180
 ggttacggag gaccaggcta tgggtccgga tcagggtatg gtgaaggcgg tggcagcgga 240
 agtgctgctg gaaggtatgg acatggtggg ggcggcggca gcggtggtgg tgaaggtgcg 300
 ggagctggtg gctctgggta tgggtccggg caaggatctg gctacggagc ttgcagcggt 360
 gctgccggtg gatattgg 378

<210> 51570
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-E11

 <400> 51570

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 gtcttggact tgagcaggag ttgtgccttg cacgatttaa gttgttctag ggtggactct 120
 ctcttgagtt atcattgtct ggatcatttt ttctccttg gacttgttgc aacttttgag 180
 tgtggaaatg gattggaata gtcgcatga atttgctggc tactttatac atgtctgtgt 240
 tcataaacct tggtttaaga tgaagttgtg gcaatcctct tagtgctaataa ataatgctct 300
 atcgtcagct gtacaatgtg gaaatgcttc tatctttttt ttttcgggca cgttcccagg 360
 tgatttttaa ggttaaggc 379

<210> 51571
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E12

<400> 51571

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aacttcagtg ttgtgtctgt ggacgaggct caaatttctg ctaacctcat caaacatggg 180
ccattggcaa tcggcatcaa tgctgcctac atgcagacat acatcggagg cgtgtcatgc 240
ccatacatct gtggcaggca ccttgaccat ggtgttctcc ttggtggata tgggtgcttct 300
ggtttcgccc ccattcgctt gaaagacaag ccttactgga tcatcaagaa ctctgtggggc 360
gagaactggg gggag 375

<210> 51572

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E4

<400> 51572

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gaagacaagc actacttgat ggaccatcct ggatttgtgc ctgttaccac tgcacagggg 120
gaggaacttc gtagacaaat tgggtgctatg tattacattg aatgcagctc aaagacacag 180
cagaatgtca aagctgtgtt cgatgctgcc atcaaggtag taatccagcc tccaactaaa 240
ataagagaaa agaagaagaa aaaatcacgc aaaggatgtt ctatgatgaa catcttcggt 300
ggaagaaaaa tgctatgctt caagtcctga atggttcaag ggggtcttac a 351

<210> 51573

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-E5

<400> 51573

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ctcgggtgcgg gccatccgcc cggggctgcc cctcttcctc tacaactact ccacccacca 120
gctgcacggc atcttcaagg ccgccagctt cggcgggacc aacatcgacc cgacggcgtg 180
ggaggacaag aagtgccccg gcgagtcgcg ctttccctgc acaggtgcca atgggcacgc 240
gggaagatct acgatccact ggaagaggac gccttcncgc ccatccttca cactacgac 300
ggggccaagt ttcggtcga gctctcgtt gccgagacc tcgcccttct cgacatcttc 360
gctgacaagg atgacgcctg 380

<210> 51574

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E6

<400> 51574

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cacagccact actaacaatg accatttctg aaactctgaa gtatgagtac agcctaactt 120
gtccaatttg cttggacact ttgttcaacc cttatgcgct tagctgtggg catctgttct 180
gcaaagcctg tgcattgtgt gctgcttctg tctacatctt ccagggtgtc aagtcggcac 240
ctacggaagc caaatgccct gtctgccgag cggttggtgt gtttgaacgt gctgtg 296

<210> 51575

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E7

<400> 51575

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tttgttgttg aagagagggt tcagtgcctt tctgggaagg tttcttaca caaacgatct 120
gacaacgttc tttctttgag cataccactg catgaggcaa ctaataaaga gcagctagaa 180
gcttttaatg agaagaaagc tgcaatgaac ttggatggaa aagaagtgtc taatgaggat 240
attgtcaggc ctagagtccc attggaagca tgcttgtcaa gtttttcagg gccagaggag 300
attccagatt tttatagcac tgcatttaat tcaaagacta ccgtcactaa gacagctggt 360

ttcactacct tttctgatta ccttgtgct

389

<210> 51576

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E8

<400> 51576

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gatagctctg gcgtagataa ggcaaaaaat gattctgatg ataagaatgc tgctgatgct 120

gataaaaggc cagctaataa aactgagaga tctgaaactg cctctcctga taagaggaag 180

gatagagagc atgataagga caaacgggac aaagatcttg aaaggcatga ccgtgaacgt 240

gaaagagtac ggagggatag agagaaggat cataagcata gagaagctga taggctctac 300

agggategcc ttaaggagtg ggaatctagg gaaagagaga gagaatatca aaagtatagt 360

gaaaag 366

<210> 51577

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-F1

<400> 51577

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actaccaggc ctctctgctc gccctcaacg ccgggtcgtg cgggtacggc tccttgggcg 120

cgccccctca cggcggcctg ctgcgccgag ccagccccga gctgtacagg ggccggcgctcg 180

gctgcggcgc ctgcttcag gtgcgggtgca gggacagcga gctgtgcagc gccgncggcg 240

ccaaggtggt ggtgacggac caggcgcgga cgtcgaaccg cacggcgctg gtgctgagcg 300

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<210> 51578

<211> 146

<212> DNA

<213> Zea mays

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<400> 51578

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ggtgctgact cccggcgagc agggtaacat tttccttcag ccatgggcaa ggggaagact 120
cacatcaaca ttgggggtcaa tggaca 146

<210> 51579

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F2

<400> 51579

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ggcgagctcg ctgctcctcc ggccgcgcgc gctcctgcca ccccatccga ttcctagctc 120
cagccgccgg ccattgccag ctccgcgtgt acaactacag gggagcatcc aggagaagcc 180
gggccttccg gcgaaaagcg acggcgagcg gaggcggccg gctgggacgc ggctctactc 240
gctggcgccc taccctctgc tgctggccgc gctgctgccg ggagctgagc cggtgacggc 300
cgtgttcgcg ccgttcgtgg agctggtgaa gacgtgggat ctccccggct ggctcgtgca 360
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<210> 51580

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D7

<400> 51580

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cctatgctcc agtcatctct gctgagaagg cctaccacga gcagctgtct gtggccgaga 120
tcaccaacag cgccttcgag ccattcctca tgatggccaa gtgcgatccc cgccatggta 180
agtacatggc ctgctgcctc atgtaccgtg gtgatgtggt cccaaggat gtgaatgctg 240
ctgt 244

<210> 51581
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-F6

 <400> 51581

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 gatgaacaat cttgtaacgg ggcacagtcc tactgcctat tactcactat cagtatggct 180
 gtacatacga atttaacaca tttgtctctc attttgtggt cgaaaactgc tccattagta 240
 actttgcata cctaaagcaa gatgttctca tctgttattt tatatagcat tattttgtaa 300
 tgttatgatg gaatcaggag tgtaactggt aattacaagt atgttctgat gccttttgaa 360
 atccattgaa gattttaata gaaagtgacc atctacaaag agtggtcg 407

<210> 51582
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C11

 <400> 51582

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 tgcaattctg gctgctgcaa attcagcatg gggaaggtac gacatgagga ggactccagc 180
 agaaaatata aatctacctc cggcactcct gtcccgtttc gacctgcttt ggatgaccc 240
 ggatcgcgcg gacatggaaa ccgatctcga aatggcgagg cacattgttc atgttcatca 300
 aaaccttgaa tcgccggcgc tggggttcac accactcgag ccatctgcgc tcacggcata 360
 catatctgca gctagaagag tgattccttc cgctcctaga gagctcgacg aatacattgt 420
 g 421

<210> 51583
 <211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C12

 <400> 51583

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 gcctccaact attgcaagag gagccctcac agaaattgct tccaggetta gaactaggac 120
 tttgagagat acaagtaccg acaataatcc tccacctttt gccccttttg atgacccctcc 180
 tgttgatatg cctagcagaa agttgccact atatggaggg cctgccactg atccaccgta 240
 tggaaggcct gccaatgac cactgtatgg aaggcctgcc atagatccac cattcggaag 300
 acctaccaat gatcgaccat atggaaggac tgctgttgc cctccatttt gaagacctgc 360
 caacgatcca ccatatggaa ggcctaccaa cgatccacca tatggacgac cttccggtag 420
 tataccata 429

<210> 51584
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-012-Q1-K1-C4

 <400> 51584

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 gactgtantg cgcccatgta tatatatggg actagtactg atacaataac agtacgtagc 120
 ctctattcgg ctcatgttca ttgacatggc ttattctagt cccactgaaa ccatacgcac 180
 acgggtgggc ccgaactacg ttctacgtca attac 215

<210> 51585
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C5

 <400> 51585

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gaactgaaga ctgagagcat tctctgctta taatctttat tcctctatat tctaaattat 120
 ttttttcaat ccccttccac ctggattcga ttcgaatccc acaccaccac gtggtgttct 180
 tcctatatcg aataaacgtt gtttcgcttg tctaataatc gatagggcac tgaaagagtc 240
 attcctagag actctacgga aggacacaac ggagatggag cagcctgctt gagaagaggc 300
 ggcggatgag aaagaagcgc tcaacctaaa ctcgtggctg tcgaccagca tgcgccttga 360
 cgtccctctt tttgattcat ttatttga 388

<210> 51586

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C6

<400> 51586

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 tctgcggccg tggccaaagg acctgcaggg ccgacgacga agaagcagtg ctggtgcggc 180
 gagtgcacca gctggtcggg cgtgtggacc tgcgacgacc tactcaccaa gtgcgccgtc 240
 acctgcaaga actgcgtccc cgtgtccacg gacaaagggg ccatcaagta cagggtgccg 300
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<210> 51587

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C7

<400> 51587

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 ggggtggtccg caggaaattc agggaggcct gggccttggt tcacaaatgg gagcacagta 180
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<210> 51588
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C8

 <400> 51588

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 catgctggct tttcgcaagg tcaaggcaag gcttggaggt cgtcttcgct tactgatttc 180
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 cgacatggcc ctggt 315

<210> 51589
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C9

 <400> 51589

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 atgacactta taagggtggt ggtgacgagg accgagattg acatgcaata tatcaaggca 180
 gagtacttga agaagtacaa gaagccatta gctgaggcta tcaactccga gacatcagga 240
 aactatcgga cgttccttct ttcacttggt ggtcatggcc attaggctat gtttcgacca 300
 tgggacatga tatttctatc gatccaccct aaatgcagcg acctacctgg aaaacttatg 360
 atgttgccat ttatctgtcg tgactcctgg atctaactgc cacatatcac atatgcgggtt 420
 cctagtatgc ttg 433

<210> 51590
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D1

<400> 51590

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atgaaaccag taaaagaaaa gcttgtgttg tctgtcgtg gcagggccgg tggcggtgag 180
cgggcccggg cctccctgct ttctggggcc tgccggtcgg gtcagttgcc ggaaatgccc 240
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agaacaccaa gaaatcaacc ccacagctgc tttgttgtcg ggtcgggtcg gatccatctg 360
cgggtactac ctgcgtccag ctattcatat gtacgtgtac aggtttatth atttacatac 420
aacatth 427

<210> 51591

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D10

<400> 51591

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gccccccctt gtagatagta ctctgctatc tcgtcgtgat cgtgagtggg gattctgtct 120
ggttgatatt tgctactgat attgggccca tttgagatat gcgttgctgc taaaaaaaaa 180
aaaaaaaaaa aaaaaaata agaaagaaaa aaaaaaatat aagagcatac tgaaaaaaaa 240
gatgaaaaga tctaaaactg cttt 264

<210> 51592

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D11

<400> 51592

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tggcgctgca atggatgata ctggcgctgcg tgggtggcggt ggaagctgcg gtggctgcgc 180
 tggtcacgct cccgggtgcc cgcgctgtgc ggggccagat cgtcgcgctc acgtccttgt 240
 tcctgcagcc cctgtccagt gtgataccct tcgccgccgt tcagatcctc gatctctact 300
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<210> 51593

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D12

<400> 51593

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 aaaaaaaaaa aaaaaaagtg tgatatcttt ttagagtctt aatgttttaa tgatgttaaa 180
 tataaactaa tcaacttttta tttgcgtaac taaatttaaa ttaatttgcg gttgttttaa 240
 aaatttggtta attggaaaaa ctttgagttt acaaaattta accgctttta aaaaattcca 300
 tttttactga attgaggtat taagaaaaat gcccaaattg ttgactttta caaaaatttg 360
 accaatttta 369

<210> 51594

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D4

<400> 51594

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 ggccatcagg cccggcctgc ccctcttcct ctacaactac tccaccacc agctccacgg 240
 catctttgag gctgcaagct tcggaggatc caacatcgat ccagcagctt gggaggacaa 300
 gaagtgcgcc ggcg 314

<210> 51595
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D5

<400> 51595

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 cgaga 305

<210> 51596
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A3

<400> 51596

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 cttgagaagg acaaaatctt gctttcttta gttgagaggt taaagtctag cgacgctaga 180
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 gatgcgaagc gtattgctga tttagaatat gctctatcta ttcaagcgag attgcaaaga 300
 ttcgaagtag aaggactgga gaagaagctt gatgaaatca ctgaaaactt caatgtcgaa 360
 cagacagaac gtgagatatc tgaatccaaa cgattgagag tttcaaggaa tggttaaaag 420
 ctttgtcagg cgaaggagga tgc 443

<210> 51597
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A4

<400> 51597

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tcaagcagag gctgcagata ctggagggaa gatcaggaac acccaacaaa caaccgctat 180
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ccacccccca atgtaaatga ttgtgtggcg agctttatgg taccatgtta gtacatgcgc 300
tgatgttgat ctgtaatttt gcaggatgg taaaactatt aatagctgac ggattgaacc 360
atgctaatat gtggagatat tgaactgtaa tttgcaggga catggtaaaa aaataaaatg 420
tgccagctct 430

<210> 51598

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A6

<400> 51598

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atagttatag caagggaaca gacacgcgcg taccaactcc atgatgaaat gtaccatcat 120
caagcaaaaa gctgcaaata ctgcaggga gatcaggaac acccaacaaa caaccgctat 180
aggctatagt ggtcacattt ctacatttct gcacatcgat cgttacaggt ttgcaacccc 240
acacccccca atgtaa 256

<210> 51599

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A9

<400> 51599

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cttaaaactaa taacaaacaa ccaacataaa aaaaaaaaaa ctacactcta aaataatact 120

accaacaata cacatcctca tccttaactg accttttcta ctctccttc ttttttactt 180
 tccctacatt atagtattca tatctatcca cctctctcca tacatctaca tcttataatct 240

<210> 51600
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B1

<400> 51600

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 ctgctccgtc ctactcctga acaggaagct gctgcgagtg tctttggaga tgtgcttcca 180
 gaatgtttga acaggcatgg cgagaagtgg ttgtcatcaa tagttagtta cttagtttac 240
 acgtcttgca ggaatttcag gttttattga tggagaaacc ttcagaatac agtagcaacc 300
 attactacac tacagaagag tttagcatac acaagggggg agaaatagta caccatagac 360
 atagactagc aactatttta caaattcaat atc 393

<210> 51601
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B10

<400> 51601

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 tggatttgaa catttagctg ctgagaagaa acgcaacagc actgaaaatg aggggtgaata 120
 taagggtccat cgttctgaat caactaagag tttgtctgca aaagcttata gtagcagcta 180
 tgctgttgct gcttcagaag atgaggatgt ctgccctact tgcttgaag aatacacgcc 240
 agacaatcca aaaataataa ccaagtgtg tcaccatttt catcttggtt gtatttatga 300
 atggatggag agaagtgata catgcccaat ttgtggtaag gaaatggagt tttgcgagag 360
 cccatgatag cctttcgggt tacatgatct cacatgaagt ctgagct 407

<210> 51602

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B11

<400> 51602

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tagaatgctc aatatccagg caaggagatt tttatgtgat aaatggaagg aagtgggtgga 120
ccagtggagc tatggatcct aggtgcaaaa tcctgatatt aatgggaaag acagattttt 180
ctgcacctaa gcataagcag cagtccatga ttttagtgga catcaacact cctgggggtgc 240
agataaagag accattgtta gtctttgggtt ttgatgatgc acctcatgga cagcgagaga 300
ttacatttga aaacgtgctg gttccagtaa caaatatcct gcttggagaa gggcgtgggt 360
ttgagattgc tcaaggaaga cttggctctg gaaagttaca tcattgcatg aggctagtag 420
gagcagcaga acg 433

<210> 51603
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B12

<400> 51603

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tataatgatc tatattcaga ccaggacatc tacatgacac taacggaacg aagcactgga 120
ctctgatgc tatgcatcct atgcccataa ttgtcattta tactgcacta accgattgtc 180
gcccacctac acataagtca gcagtgcaca aacgttgctc aatctatact cgctgcagc 240
atatacatc tccattgcta cgttgtctac ctgttgatgc acctcatgac ccacctcaa 300
ttacattagc caacggacgt gtaccactaa taaaatcct aataggacaa gcacgtcggt 360
atcagattgc tcaacggaca cttctggctc gaatgtaca tcattctaag aggcatgctg 420
taccagtac 429

<210> 51604
<211> 374
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B2

<400> 51604

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ttcgctctcc tagctctttg tgcaagcgcc actagtgcga cgcatattcc agggcacttg 120
ccaccagtca tgccattggg taccatgaac ccatgcatgc agtactgcat gatgcaacaa 180
gggcttgcca gcttgatggc gtgtccgtcc ctgatgctgc agcaactgtt ggccttaccg 240
cttcagacga tgccagtgat gatgccacag atgatgacgc ctaacatgat gtcaccattg 300
atgatgccga gcatgatgtc accaatggtc ttgccgagca tgatgtccca aatgatgatg 360
ccacaatgtc actg 374

<210> 51605

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B3

<400> 51605

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tccgccgcgg cggcagcagg aggaggagga ggagggatag gggtagccgg ctgtggcggc 120
gcggttgacgg agcgcgagga cgaggtggag gaggccgacg cggcggaccc ccgcgggagg 180
gccgcggcgt aggaggagga gcagctgctc tcgtgaggt ggatgagctg ctccgccgcc 240
gcgagctccc gcgccgtgaa ccgcgccggg ttcggggcct gcgcctcgtc ggccatggcc 300
ccgcgcggtg gactgaggac ggatcgatcg acgcaaacgc cggcgg 346

<210> 51606

<211> 356

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-B5

<400> 51606

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aagcgcgcga gaaaatgcag ggcggatcca gcggcatcgt gtatggtggc ctcaagtacc 120
 aggcgcggtg tatcgcgcac atacgcgcgg acgccggctc gaccaccttc ctgcgcggca 180
 ccctcagcct caaagaggaa aacgaggtgc acctgatccg gttntcgccg gcggagagcg 240
 agctggtgtg cgatggcctc ttctaccacc ccaacgagat ttgggacctc aaatcatgcc 300
 ccttcgatca cagggttttc tgcacagtct acacgtctgg tgagggctat ggtgca 356

<210> 51607
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B6

<400> 51607

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 tgccctgttca aactgttggc cttttaccgt tacactgcag cagattttcg ctgagctggt 120
 tgcagatgat gttttcttta tgcagttgca taaggaacgc aaccttgtgt gctgcagcat 180
 cagaaaccaa caaagtttca atttccattc taatgaagcg atgtgaggtt atattgggtc 240
 aatttttggc cgatgaaaat gatctaagag aacatccttt gcctagtgtg aggggttga 300
 taacgatctg tgttcttcaa gagcttgcta gactaattat agacattgat gcagcgaata 360
 ctttcaacat acctgcatat ctgaagcaag ctttggggga aaacaaatcc catg 414

<210> 51608
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B7

<400> 51608

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 acacaaacaa agcgccggcc actctgtgga ccccgcttac gcgtccgccc ccaccccaca 180
 gggcctcctt ttctagaggg ggaccaaatt ctctcgctca ggccgatgag ctacaccgtc 240
 gtcacgggct atcccgccgc gtaccccacc ttattccccg cctgcgcctc ccccgatatg 300

gccccctg

307

<210> 51609

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B8

<400> 51609

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gggtactctgc tgaagaaaag accaattggc ctgaagacta aattgtccat cttcaattgc 120
accaagagaa aggatctcca ttgcactggt ggctggtgca tgtttgaggc ttggatgatg 180
gcagaagtgt catgtttttt tatgttgaac cttgtttcta aatagtaagt ctagacaatt 240
gttctgtttg aaatctgaat gaattgtggc tggttgttgg tggactggat tacaggcaaa 300
ataaaaaaca 309

<210> 51610

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-B9

<400> 51610

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catttgatgg atgggtgaac tgttgagttt gactattccc ctcatggaa aaatgaaagt 120
gatcaaccga attggtcttc agtatcatgt ttgaagactg ctgctgatgc tgcattgttca 180
atgtatactt tgtctctaaa tcgagaagct acaccaaata ttattgtgtc atctgagaga 240
tcagtcaagt caatgactga acagcagtta gatgaaaaca gtgaaaagca tgaagaaaat 300
agtggaaggc ttgaagaaca tgggtggaaat cctgttcaaa cttcctatga tcaaattgtt 360
aatggctgca gtggaagagg gaatagaaaa ttctgcagtg gaagaaggaa aggaaaagga 420
aaatgataag gaaaa 435

<210> 51611

<211> 366

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-C1

 <400> 51611

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 aaggctgctc ggggtaacag cagctcaata tttatccggg gctttgataa aaatctttca 120
 gaggatgaga tccggagctc tctcgaacaa catttttagtg attgtggtga gatgacaagg 180
 gtctctatcc cgactgatca tgaatctggt gcaataaaag gaatggctta catagacttc 240
 aaggatcagg actctgtgtc taaagccctt gagctcagtg gctctgacat tgggtggtggc 300
 tatgagcttt atgttgatga agccaaacca agaggcgatg gccaacgtgg tgggtggtaga 360
 tctggt 366

<210> 51612
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-012-Q1-K1-A2

 <400> 51612

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 acagcggaat gcatgagtag ctactgt 87

<210> 51613
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-G5

 <400> 51613

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 agcctgcaat gaccatgttg cacttacgca ccctgacctt gacaaggaga ctgaggagtt 120
 cattgcagat gtgcttgggg tcgagggtgtt taggcagact attgctggaa atatccttgt 180
 ggggagttac tgcgccttct ctaacagggg tggtttggtt catccccata catccgttga 240
 agaccttgac gagctctcca cgctcctcca agttcctctt gtcgcaggaa ctgtgaacag 300

aggaagcgag gtcattgctg cagggcatgac agtgaacgac tggactgcct ttgtggcttc 360
gacacgac 368

<210> 51614
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G6

<400> 51614

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ggaggtggcc tggcggcgct gagggcggcg cgcgccgtga aggagacgac cgggatcgtc 120
ggccttgagg tggcgcccaa cgcgcgggag gttctcatcg ggctctacac gcgtacgctc 180
aaggagatcg atgccgtccc caaagacgag ggctaccgca aggccgttga gtccttcacc 240
aatcaccgcc tacagatctg acaggaggag gacgactgga agcgcatcga ggaccgaatc 300
ggatgcgggc aagtcgagga gtcctatcga gagggcggag acgagctgaa gtcctatgcc 360
aaaatgattg aatgggatcc gtggggtgtc cctgatgact acgaatgtga agtgattgaa 420
gacgac 426

<210> 51615
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G7

<400> 51615

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gggaaatccc aagctgctcc acaggcccga gggtcggctg tcctcatggc ggggatcctg 120
gcgtgggcgg ctgacgtggt cggccggggc ggtgtcatcg acctct 166

<210> 51616
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-G8

<400> 51616

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ccgcgttcgc cgctccattt gatcgaattc ccgatggcgc ccaaggccga gaagaagccc 120
gcggaaga agccgacgga ggagaaggcc gagaagaagc ccagggcgga gaagcgcgtg 180
ccgggcaagg agggcggcga gaagaagggg aagaagaagg ccaagaagag cgtcgagacg 240
tacaagatct acatcttcaa ggtgctcaag caggtgcacc cggacattgg tatctcgtcc 300
aaggccatgt ccatcatgaa ctcttctatc aacgacatct tcgagaagct ggctgccgag 360
gccgncaaag ctgcgcgcta caacaagaag cccaccatta acctccggga gatccagact 420
tcggtgcgcc tcgtccttcc tggcgagc 448

<210> 51617

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H1

<400> 51617

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gaccatgatt gctacttgtc agagatggat ttgctgggta catggatgtg gatttgttct 120
catggctagt ccatatatat tgcttcttgc ttctttcttc ttgctactgt cattctgggt 180
tgacctgtgt catcagacaa atgatgaaga cgaagaagat ggaaggagtc agagtcacca 240
tgaagcttta ctagacagaa caaaagcgaa acctggcatt catcctgtta atatccgtca 300
gaggtgttgc ccaggaatac agcttgggaag ccggcaaaaa tttgtgattt tgggtgcttct 360
actgtcattt gttgttatgc ttgcctttgc catcctcata tgggttggtga gaagagacaa 420
tcctatcgat tcttctctac tgaaaagggt ttatttg 457

<210> 51618

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-H10

<400> 51618

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gccccacatc caccgcgaat aacaacgaca aaaacgacat ggactttaag ttaattttca 120

aagatttcgt aaaaaagtta attttcaaag gtataatgat agtggtataa ttactttcta 180

ccttcgtgga ttgtatgctg catgttatat tttgtctcag gattgtgcgt attacgtttt 240

gacttgatgc tgtagatgct acaacagcaa cctccacgtc taaaaatata tacattgtta 300

tgcgctatcc ttgaaaactt tataatcaca ttatctttac aactaattaa gtactcattg 360

taggcgtnc aacgcccga gctcggggcg ggacagcctn cacggtggcg gggtcacgct 420

gaacagggag 430

<210> 51619

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H11

<400> 51619

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agtgctgtgt tcatcctcgg ttccagcaga cccatgcac aaacagcatg gactgcggat 120

cgatggatgc tgttaccccc gtcaggcttt attctaagtt aatcttaagg aaaaaatgg 180

gcttcttggt gctgc 195

<210> 51620

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H12

<400> 51620

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gtcaagtacg gcgcgggcat cggccccggg gtctacgaca tccactcccc caggatcccg 120

tcggctgagg agatcgccga ccgcacgac aagatgctgg cggtgctgga caccaacatc 180

ctctgggtga accccgactg cggcctcaag acccgcaagt acacggagggt caagcccgc 240

ctgaccaaca tgggtctccgc cgctaagctc atccgcaccc agctcgccag cgccaagtga 300
gcaccttttt tttgcctttt tcgtttccga ggagggcgtc gtcgatgccca atttgtttcc 360
aataaacagg gctgtgccc 379

<210> 51621
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H2

<400> 51621

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tagttatgtc agatattaat gttagagaat ctgggttcaag tgcagatcgt ccttgcttga 120
acgcatgcct gtattagatg aagctaggta tctgggtgaag cgggctactg ctacacaatc 180
aactatttca gcagataaaa ttgctccaac agtcactcct ggaagcctta agcttccgaa 240
tgggtgtagca aaacccacct cagctccttt agctgatttg cttgatttca gttctgatgg 300
tgccccagct tccaccgttg cttctactac aacacctaata gattttttgc aagatcttct 360
gggtattggg ggagttagtt catcaacgac aggtgtaact tcaaccgcaa gcacagatat 420
tcttatggat cttctgtcca tgggatcatc 450

<210> 51622
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H3

<400> 51622

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gcgacaagag cagagtgaga tcgtcgtcag cgagcccagc agatacgaga gagaggatgg 120
cggacatcgc gttgctggtg gcggagcagt tcgagaagac ggcaaggcga ggcgcccccg 180
gcggggacag cggcagcagc agcgggagcg gcggcgagac aaggaaacttc ggggccgtgg 240
ccaaggtgtg gagctcgtgg gtggagtccg ccttcgccgc cgcgtccggg gtcagattca 300
ccgtcgcggg gcagctggag cccaagaccg ggctcgcgct ggccgctgcc gacggcctct 360

tctccgcta gcttcctgcc tgcttccatg tctttctcct gagcagtgcc agtgatcgag 420
cgagtcctgc tcttgcaccc cgtactatg 449

<210> 51623
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H5

<400> 51623

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gtgatgtgcc tgctgaatag ttcctagtc ttgcatacac tgctgtgcta ccacatgaca 120
tgatgtactc gtgtgtgtgc tttgggtgtt gtgtaattcc atgaccatga tcagtaatct 180
gaataaaaaa tattggagat gtgcttgctt cct 213

<210> 51624
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-H7

<400> 51624

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cgaatgctag acgtcattac catacagcag gccagcagcc agtaaggagc tccacttttg 180
cagcctgcca ctctgcttct tccactcctg aaaccgagcc tgcagggtgca ggcaatgcgg 240
ttgcttgctg gaggccttat ccaatcagtg aaggcactaa actcgcaaag ccgttggaa 300
ctgcgagcaa ggtcatgcac atcttggttg atgaagttaa tacagcctgc acttgaactn 360
ccgcactctc gcgatcgtgt ggaagacgtg ggcgccgttg agggcaaaa tcttc 415

<210> 51625
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H9

<400> 51625

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gtatgagatg taaagctcag cccgtagttt agatgtaaag ttttgtactg agtataaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaata aaaaaaaata aaaaattata aaaagaaaac 240
taaaataaat taa 253

<210> 51626

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-012-Q1-K1-A1

<400> 51626

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tttccgggga gggggattgg ggggatttga tatatcga gagagtagtg tttgtcccc 120
gattcctcat gcgtggcgcc caaaacctag agatcctttt ttgcgccga aaccttcctg 180
agctggtccg attcggtgcc gttagagggg atctgtgtac ctccgcgtcg gccggcgctg 240
tcgatctggt tgtcttcac ggatggtttc cagacggtga ctccgncggc gcggcgcggc 300
gc 302

<210> 51627

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A10

<400> 51627

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gaaagctttt tcccagaata aaggctgggg aggaggaagc ggcggcgggc gcgctctcag 180
aagagagggg gagatgaaga ctccgagctc agcgagaggg gagccgaggc gtctcggaaa 240

tgcggctctt ctggcgetca tgctctgctc cgctcgctcgcg ctctacctca tacggggggag 300
attcgcccca attggagatg ccatcaaat 329

<210> 51628
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A11

<400> 51628

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gcatgctctg ctaacgatct agcgacggag actagctatt ctatgatgga gatagtctga 180
gaattacagc ttatcaccag actatgagct tagtccttga gcacacgatac gtgctgtgaa 240
atgcgcgtaa tatagcgctc atactctgct gcgatacgaa a 281

<210> 51629
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-012-Q1-K1-A12

<400> 51629

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actgactact ctgagcagca acaactgctt ccatctaacc aattggccgc actgaacccc 120
gctgctcatt tgcagcagca tatactacta ccatggaacc agctggctgc agcagaccga 180
gcttccttgt tgacacagca actgttagtg cctttctacc agcaatttgc ggctaacccc 240
agaaccctct tacaactaca acaattggtg ccctttgtcc aacttgcttt gacagaccca 300
gcggcctnct accaacaaca catcattggt ggtgccctat tttagattgc ttatta 356

<210> 51630
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E9

<400> 51630

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ggcatgcttc ctgaagcagt gtcgaaggtc gctgctcagg cttgcaccag cattccttcc 120
aacccttgga gttctatcca caagggtttt agcgcctaag aatcataagg tgaggcgaaa 180
tatttcagcc gctccaccgc aacgaactgg ttacattac cagtcctcag gggggtccta 240
gttcttgaac cataggtgaa gcagacttat accactatta tagctgttcc accgtcgttc 300
cagattacat agctatgcc aatttcgggt gtacatatat agtcggaaag ttatttggca 360
attgtattgg tcgttgctgt atatattccc tatagttcgt tagcagatgt gtagtttgta 420
attccataaa aatg 434

<210> 51631

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-F1

<400> 51631

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cgctggcggc ttacctcttc agcaacgacg ggcagctcaa gcagcagttc gagaggaccg 120
tctcggcggg agggatcatg ttcaacgaca ccggcatcca cctgacaaaac ccgaacctgc 180
cgttcggagg agtcggggag agcggcatgg gcgcctacca cggcgccctc agcttcgacg 240
ccttctccca caggaaggcc gtcttgacc gcagcttcct cggcgaggcc agggccaggt 300
acccgccgta cacgccggcg aagctcgcca tcctcagggg cgtgctcaat ggcagccgcg 360
ttgccacggt tcaagcggct gcngggtgta caagaggggc atcagctgac tgactgactg 420
accccccttc atgctntata tt 442

<210> 51632

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F10

<400> 51632

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cttctaccaa tctgttaact acgcatccaa caatccatth gttccagcaa tgaactctag 60
ggttttctttt gaggatccta tcatgaatct gcactctgac caggggaagta actcccttgg 120
ctgctcagac ttgggctggg agaatgatac taagacacca gacatcacat ccattgctcc 180
cattcccact attgctgaag gcgatgagtc tgtatttgtc aactccaatt caaacagctc 240
gatgggtgctt cctgtcctgg agaacaatgc tgttgatctc actgatgggc tgacagattt 300
ggaatcctat atgaggtttc ttatggatgg cgggtcaagt gattcaattg atagccttct 360
gaaccttgat ggatcacaag atctttgtag caatat 396

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<210> 51633
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F11

<400> 51633

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aaaagaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aagaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaatt ttttcaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa acaaaaaaaaaa aaaaaaataa aacaacggac accacataaa 180
aaacacaaaa ttcccactat tagctaaacg caatgaaact gtattcatca acaccaaaaa 240
aaacagctaa atagcgcctt ttaaaaaaaaaa gaacaatgca aaaaacctca ctgaccacca 300
aaca 305

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<210> 51634
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F12

<400> 51634

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gtccttcttc gcctaggtca ctcggtgatg gtgaagggtta caatagtgtt gatgaacagg 60
gtccctgtta cgcctcgagt tatgatgatt cggaaagaga gcgtatgttt gagcatgacc 120
taaggcgagt gaaagggttg gaaatcagaa agacggccga agatgggaac tgtctattca 180

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gagctgttgc tgatcaagtt tatggagatg cagaagctta tgacatggct aggcagatgt 240
 gtgttgatta tatggaaagg gaacgggatc atttctctca gtttataact gaaagtttta 300
 cattatactg caagaggaaa aggagagaca aggtttatgg caacaatggt gagatccaag 360
 catttgcaga gatgtacaat cgtcccattc acatatattc ctacagtaca gagcccatta 420
 acatttttca aggaagc 437

<210> 51635
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-F2

<400> 51635
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 gaacgggggc ggcatcttcg agatgaccgt cttgccgggc aagtacgcgc tgggcatgta 120
 cttcgtggtg tacaagagct ggaacttcac cgagcagggc ctccccgcgc acctcgtcaa 180
 gaggggcgtg gcggtggcgg acccgttcag cccgtacaag gtgcggtctgc tgatcgagga 240
 ctacccttac gcgagcgacg ggctggccat ctggcacgcc atcgagcagt ggggtgggcga 300
 gtacctggcc atctactacc acgacgacgg tgcgctgcgg ggcgacgagg agctgcaggc 360
 gtggtggaag gaggtgcgcg aggtccggca cggcgaccac atggacgcgc cctggtggcc 420
 caagatgcan gccgtgtccg aactcggcag cgc 453

<210> 51636
 <211> 192
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F3

<400> 51636
 cccacgcgtc cgaaaaaaaa aaaaaaaaaa taaaaaaaaa aatagttgtg ctttctctga 60
 gcaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaata attgtgcctt ttttgaccaa 120
 aaaaaaaaaa aaacaacaaa aataaaaaaaaa aatctagcct tttatttgac caaacaata 180

tctatcatta gc

192

<210> 51637

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F4

<400> 51637

gtggaatggt gtttgcttat accgcagttt tcgactaaaa aaaaaaaaaa aaaaaaaaag 60

aaaaaagtaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aataaaaaat aaaaaataaa taaaaaaaaa aaaaaaaaaa 180

aaaaacaaaa aaaaaaaaaa aaacaaaata aaattaaaaa aaaaacccta caattacaaa 240

aatcaatacc aatag 255

<210> 51638

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-F5

<400> 51638

cccacgcgtc cgccacgcg tccgaacctt cctcctggtg gcccagggtta tgttggaag 60

ccacactaca tgctccacg gccacaagag aactattatc ctctcccga tgtgccccct 120

gtagaaaagc agccacacta tggaatttct tcatatggac gagatgcacc tncaagtgtc 180

cccccaggga atcaaaacca agcacatggg tcatctcagg tgacacacag catgcaagtt 240

cctctttcct atgctgatgc tgtgataagg gc 272

<210> 51639

<211> 272

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-F6

<400> 51639

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tgaagaggaa ggggtgtgat gagttcccct actgtgtgca ccttgtctct tgggagaagg 120
agaatgtctc cagtgaggcg ctcgaggctg cccgcattgc ctgcaacaag tacatgacca 180
agtctgcagg aaaggatgcc ttccacctta gggtcggggt tcacccgttc catgtcctnc 240
gtatcaacaa gatgctttcc tgtgccgggg ct 272

<210> 51640
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-F7

<400> 51640

gaccactcg tcctctcagt ccaactacca cccatcttaa cctttttcca acatcaccat 60
ctactaggac taagtcaaat ttccacacctt caatgacact caataactat tatacttctt 120
ccattatgac caactataaa aaacaccac actatctaaa cacttaccta aatcaacatt 180
ctactacaat tacctactct acaaataaca acccatcaca tccttcatct cagtttactc 240
acaaccatct acttcctatt 260

<210> 51641
<211> 386
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-F9

<400> 51641

aggaatcctg gagatacacc attcaagttt ctatttgaca aaaactgtcc agactacaga 60
gattatgagt ttcagcttgc tgaagaggaa agggctcttg ctcagtcaaa ggaggctgaa 120
gcatcgaaag gtgctaactc tggcactgca agcttcaagg caccagggtg tacttataga 180
agctcatttg aacagaagtc taactatcag acacctgcat cagctttgta cggggcatat 240
gagggtagtt cttcccaagg aagctcttct agttatgggtg atcatacagc tncaccatca 300
gatcctgtag cattgatgga attctatgca aagaaggctg cactggaaga acggaagagg 360
ccaccaaggc agtcgaaaga tgaaat 386

<210> 51642
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G1

<400> 51642

aaaataatga gagcaacact tattctacct gttctgaagc aggaccaaatt ttggaaagac 60
 gcagtcggaa ttcgaagaca tctttgatgt tgatcatctt ataaattatt tgaaggatga 120
 tgtacggatt gtccgagata tccctgactg gttcacagag aaggatgagc tgtttactag 180
 tataaagcgt actgtgaaga acatcccaaa gtatgcttca gcacagtttt atattgataa 240
 tgtacttcca aggatcaaag agaaaaggat aatgtctatc aagccatttg tggacagatt 300
 ggggtatgat aatgtacca cagagattaa cgggctgaga tgcagagtta actatcatgc 360
 attaaagttc ctacctgata ttgaagaaat ggctgttaag cttgctgcaa gaatgaagaa 420
 caaaactggc agcataaatc catacat 447

<210> 51643
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G10

<400> 51643

cccacgcgtc cgcttatgtt ccgcattctc aagggccttc tcttcttgg ttttgtctcg 60
 gtgatggcag tcctatttgt cgtcttacac cttactatct ctgatgtctt cgctagtatc 120
 cttggatact tgcctactgg atggtgtctt cttctgattg gacaagcatg ctcaccattg 180
 attaggagga ccctgctgtg ggactccatc atggagctcg gaaggtcata cgagaatata 240
 atgggtctcg tcctcttctt gccaatgggt ttctgtcgt ggttccccct cgtctctgaa 300
 ttccagacac ggctgctgtt taaccaggca tttagccggg gcctccagat ctcaaggatc 360
 cttgctggtc aaaaggatgt tagcgagttc gagttcaagt gac 403

<210> 51644
 <211> 349

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G11

<400> 51644

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cacgcgtcct cccagaatca taaactcgct cattccgcct ttaccctcgc cctcgttcga   60
aagggccggg gacggctttc tagcgatttg ggtcaacatg aatccccagt actactacct  120
tttcaaactt ctgcttattg gcgattctgg tgttgggaaa tcatgcttgc ttctcagatt  180
tgtccaccat tcttatttgg acagatatat catcacactt ggggttgatt tcaaaattcg   240
cacatttgaa caagatggga agaccataaa acttctcatt tgggatactg ctgggcaaga   300
gctctttaag acaattactt gcattacta tcgcggagct catggaatc                   349

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<210> 51645
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G12

<400> 51645

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cccacgcgtc cgaccacgcg tccgcattat cagatgacaa acaattggtc cccgggctgg   60
tttctcgaat agaacaggga actgatgttc tacgtgggaa gacccttttg ttgttgctc   120
tgctttgcaa gaatagtcga aggtggcttc ctcatctctt ttgcaatgca aaattaatct   180
cagctgttga tagactggga aaagagaagg agggttttat tcatcaatgt acagaagcat   240
ttgtgcagtt ggttgcttcc ttgggtccctg gtattcttga cactgtctcc agtgatatac   300
aacaggttat ggttggcaaa cgccatggac ctgttactgc tttagctggg cgagctcatc   360
caaagagcac a                                                             371

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<210> 51646
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G3

<400> 51646

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ctgagcaggt gacatcatgc aagctgtggc gtcaagtatg agagtcattc aaacctccag   60

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agacatgcac aactgtttca tggactttcc gtaacttcta tgagaaggca ctccttgaat 120
 acgagaaaca caaaatcgaa acaggagagt tccaagtagc ttcattctgct ctaccagacc 180
 ggttttggttc tgagagtcag gtgggtggaa gccatgtatc tggttctgga agagccagaa 240
 gagaatctgc aactcgtgca atgcaagggtt ggcatctca gcgcctacta gggaatggtg 300
 aaatcgctga ccctataatt aaggataaag ggcatattgt cttaaagaag gataaaactc 360
 ctaaaagcag tggttctgcc aagaggaaaa ggacactatc cctggaagat gacagggtga 420
 taccttataa atctgatcag ctacaaaatg actcga 456

<210> 51647
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E8

<400> 51647

ctggaacgaa ccaccagacc aacaatcgct agactccctc gagcagctag aggcgtatgg 60
 agtgatatgg aagcaaccag tgcaagggtga aaagtccttc gtatccgagg catatccggc 120
 gaaatggaac aaaccaccat caccaagcaa gcaatcgcaa gactccttcg agccagaggc 180
 atatcggttg aaatggaaca aatcaccacc accacaccaa caatcgcaag actccttcga 240
 gtcggaggca tatcgagtga aatggaacaa atcaccacca ccacaccaac 290

<210> 51648
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D12

<400> 51648

cccacgcgtc cgcccacgcg tccgggggtc tacaaattca agtgagaaca atttattgtg 60
 ggaccggtat tccaagcggg ctaagggttc aaggctagat ggtgcaagtg acaatgatga 120
 aagccagttg ccgccaactt ctgaagtttt accgtttgca agctccaact actctccttc 180
 cgaagctcca agtaaacctg acttgcttat tggcacccca gattcggcat ccaagaacta 240
 tgtggagcag cagtacgagt actgtgtgaa ggtggtcaga tggttggagc atgaagggca 300

catggacaat gacttccgtg tgaagttcct cacttggttc agtctgaagg caacagcgca 360
ggacaagcga atcgttggcg ccttagtaga tgttcttata ggtgatcctg caagcttggt 420
tgcccaactt gttgatgcac tcaa 444

<210> 51649
<211> 337
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-D3
<400> 51649

gccacgcgtc gggactccgt ccgaccctcg aagcgatcac cttaccgctc tctgtcgtgc 60
aggtgaagat gattccgcag agccagagca gctccctgca gcgccttcaa cacgtcgaga 120
agcggatagt gcgggtgctg gagcttgccg gagcggatgat ggaggagctg ggaaactccc 180
atggccctcg caccgatgca gtcagcgcgc actgccgtga gttcatgata gctatgaagg 240
aaattcanac gacgttgctg gaggaatca aaagtgcttg tgaatatcgt ccatttgaaa 300
gtgtgattac agtgccagga ttggctatga gatatgc 337

<210> 51650
<211> 463
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-011-Q1-K1-D4
<400> 51650

aacacacata cgaaaaacta aaaaacaact ttaaaagtta tcacctatac acaaactata 60
ctgctaattg caagtgaaga atggtgccac agagccagag cagctccctg caacgccttc 120
aacacgtcaa gaagcggata gtgctggtgc tggagcttgc tggagcggtg atggatgagc 180
tgcgaaactc ccatggccct cgcaccgatg cagtcagcgc gcactgccgt gagttcatga 240
tcgctatgaa ggaaattcaa acgacgttgc ctgaggaaat caaaagtgct cgtgaatatc 300
gtccatttga aaagtgtgat tacagtgcaa ggattgctaa tgacatatgc tgcaagacgc 360
tagagtatgt aattgagaag ttggatacca tgcaacatat ccttgaacat atcactgatg 420

atgtttaacg agctagcaac atattacgta ctatactctt ttt

463

<210> 51651

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-D5

<400> 51651

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ggcctttctcg ctactcgtgc tccaggtgac ttattttcaaa tgtggaggcg tctcccttgg 180

tgttggcatg caacaccatg cagcggatgg catgtctggc ttgcacttca ttaactcatg 240

gtctgacctc tgccgtggag ctcaaatttc tgtcatgccc ttcattgacc gcacccttct 300

tctgtctcgt gatccaccaa ctccatcttt tcaacatatc gagtaccagt ctgccccagc 360

tatgtttgtcc tncacaaccc aggtccttgc ttccaagtca aagccacctg ccaactgcttg 420

ggacattttc 430

<210> 51652

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D6

<400> 51652

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aggcccaatt agtccattcg tgaaggcatt gaaataattg tttcacgagg aatgactatg 120

ccacaggtga tcacgtcact ggaaccaaca cctcggaaga gccacgtgcg tttagacaga 180

gtgaggactg tatgaggcat gaatgaaagc gatgggtgtt tcacgatgga ttgtctaatt 240

aatggattca aagctggggc atggagcatg aagcaggatc agtttgtaga ttgcattcag 300

aactcctgtg cacgttggtg gacgtagata catgacaacc ctgattgact 350

<210> 51653

<211> 395

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-D7

 <400> 51653

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 atggcatcag cagagctttc ccgtgaggaa aatgtgtaca tggcgaagct cgccgagcag 120
 gcagagaggt acgaggaaat ggttgagtcc atggagaagg tagcgaaaac tgttgactcg 180
 gaggagctca ctgtggagga gcgcaacctc ctgtctgttg catacaagaa cgtcattgga 240
 gcccgcagtg cctcatggcg catcatctac tccatcgagc aaaaagaaga aggtcgagggc 300
 aatgaagacc gtgtaacact catcaaggac taccgtggca agattgaaac tgagctcacc 360
 aagatctggg atggcatact taagcttctc gaatc 395

<210> 51654
 <211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-D8

 <400> 51654

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 tggttctcgc tggttgccgg gagctgggat cgaaagtact gctgttggtc gcacggcgag 120
 gggcgggcgg agaccggtca gaaggaatgt cttcgggcca aatcgcgccg gcagatcatg 180
 tgtgctatgt gactgcagc ttctgcaaca cagttctcgc ggtgagtgtc ccggggaata 240
 gcatgctcaa catcgtgaca gttcgggtgtg gacactgcgc aaatctactg tcagtgaacc 300
 tggaagcact gat 313

<210> 51655
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-D9

 <400> 51655

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gattttgttt taatcttgag aaagttgcag agaaacattc aagttattgg caacgaagag 120
 cccatttctg cttggaaaga agcaaagcta cagttctatg gtgggcctga tgggtgctgtc 180
 atgcagagaa cgccattaat ccatgcaaca ttgatctcag ggccaagaaa gaagctcaac 240
 tcggcatgct tcctgtttga agcaaggga acaaacttac cccaccagat ctctgtcgcc 300
 aaagcagggc tagtgaataa gctgtgtttc ctcccggatt gtcactgctt ttatatttgt 360
 gcatttattt tgagggaac attttgccca aaaaaggcct gcagtgcacg ttttaaacia 420
 gtcatttgaa ccaactctta tg 442

<210> 51656

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E1

<400> 51656

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 gagagccggg cagcgagacg gctgacgatg gggatgagcc tcgcccaggc ggtggccgcg 120
 ctgcggggca cgtgcgcgcg ggcctgtcg cgggcggcgc gccggctgcg cccgcgggac 180
 ggcgtctcgg cgtgcttctt gtcccgcgcc atcgtgccgt tcctcggcgg cggcagcaag 240
 ggcgtcaaga agtcagtctc ctcatcagca tcactctact cgtcgtccaa gttggagagg 300
 acgaaagcgg cgccggagga tgaggacgag gcggtggaca ggctgatgct gatggagatc 360
 atgat 365

<210> 51657

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-E10

<400> 51657

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 cgcgccgcgc gcgccgaccg caggttctac cgcctcttct tcgccgagcg ccaccgggac 120

ctcgtcctgg gagactacct caccacgctc cgccgcgagg ggcgcgccgt catggtcaag 180
aaccgccagc gcaagctctt caccaacatc tccggcgacg gtccttgga ctcggacggt 240
gtttggagcc acgtggtgtt cgagcacccc aagacgttcg cgacgtggc catggacccg 300
gacaagaaga aggaggtgat ggacgacctg gacgcgttcc gcaacggcaa ggactactac 360
gcgcgctcg gcaaggcgtg gaagcgcggc tacctnctgt acgggccgnc ggggacccgg 420
cagtcacca tgatc 435

<210> 51658

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E11

<400> 51658

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gggagggagt gagagtgaga gccatgacgg agctgttcga cacggccgtg accagcctcc 120
tccacctgcc ggaggtgctg gaccgtctct cgcgcgcaga cggcgaccgg cggtcggccg 180
gcaaccacgc ggcgacggg cacggacacg gacgcgtcca cggctctggc ggcgcccgcg 240
gagcgccggt ggacatcgtg gagagcccc gcgagtacgc ctctgtgctc gacgtgcccc 300
gcctcttcaa gtcagacatc caggtgacgc tggacgagga ccgggtgctg gtgatgaacg 360
gcggcagcgg gaagcggaag cgcgatgagg aagatgacat gaacggcgat aggtgccgat 420
acatccggtt ggagcgc 437

<210> 51659

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E12

<400> 51659

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ccactattga atgaacgacc ataaattgcc tacttgccaa cttccattca aacaactcta 120
tgggtgactc ctcttctgca gaacacttct ccatacttca ctattggct gacaaaaatc 180

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188

<210> 51660

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E3

<400> 51660

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gagcttctgt aaattagaga acaggataat ctatgctgag cgcatttatc aatattgcag 180
gcttcctagt gaagcaccat tgattattga gaactgacgt ccaccatcat catggcctca 240
gaatggaaac attgaactga ttgatctcaa ggtccgctac aaggacgatc taccattagc 300
tcttcattggc gtaa 314

<210> 51661

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E4

<400> 51661

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tcgtcctacg gagcggcgga gtacatctgc atccagccgt gctgggagct gccgcactgc 180
gacgcctggg gcagggacgc caagttcgcc aagggcgggc actgcgtcga cttcggcagc 240
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gccagagtgc cagtggagaa tggagcgtcg gtctctctct cgtctcgcac gtgtaagata 360
aatatatggc agatgataat gcacaatata aataaacggg agaagaaaaa aaatccaagg 420
atctcgcatt cggttggtcc ataca 445

<210> 51662

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-E6

<400> 51662

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tgggagactg atctgggacg cgtccattgc cgatagagac ttgcagtagc atccactagg 180
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gtcgtcgtac aaattgttcg tgagtgggtga gccagtttat aggcttggtt ttcttttggt 300
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cccgaagggt gcaattgaat tacc 384

<210> 51663

<211> 305

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-E7

<400> 51663

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cgctggccta cgacgcggag aagctgtgcg gcgtgaagcg cgcgacgtg aggggcggcg 180
tggggccgtt cgggctgtgg gtgctggcct tcgccaaccg caaggagaga accgccgtgt 240
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<210> 51664

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D10

<400> 51664

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ctgctgggca tggcgctcggc ggcgacctac aacgtcggcg agccggccgg gtctctgggac 180
ctgcgtacca actacggcac ctgggtctcc tccaagaggt tccacccggg tgaccagacc 240
gtgttcaagt actcgcccca ggcgcacgac gtggtggagg tgaacaaggc ggactacgac 300
tctgtctcaa tcgccagccc cgtcgccacc cacaactccg gcaacgacgc catcgccctg 360
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<210> 51665

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B4

<400> 51665

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ggtttggaac atgatgaaca tgcgaatttc gtggt 95

<210> 51666

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B5

<400> 51666

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ccacagattt cttgtgccgc atgaaggagt acataccttc gcggtcagtt ttcaccgatg 120
aggtcactgc ggcctggga gaacacttct cagttcagcc cgtggatcta caagcagttc 180
tttccggtga tgaaggatcc gtgccttcta caaagctgct gtcacaacag gacctagaaa 240
gaaattgttt cgtccaaaga atcccttaac aatatagaaa gttgaagcgt gaccatgctt 300
gtcgtttttg ttgtgaaata tgagcagttt tgtcgagctg tgaattcatt caaacattat 360
gggcaacca gtacgtacat acgaatgccc accaccatct ttaagtac 408

<210> 51667

<211> 362

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-B6

 <400> 51667

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 ccaacttcgg ctctactcc gacgacatgc gctacaccga ccaggacgta cgacgcatcg 180
 tccgatacgc cgaggccttt ggcattcgcg tcatccctga aatcgacatg ccccgagagt 240
 gagagctgat tccacagtac tgtactggat cctgcactat gctacagctg caatcttcaa 300
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<210> 51668
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-B7

 <400> 51668

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 atggctttgg tgctctcgcc atcctcactc tcttatacta tgctatattt cgatggataa 180
 agaggaaacc aacaggaaga ttccagctct caaattgatt agctctgtaa gtcgaagatt 240
 gacagattca tcatatgtgc cccctgagag gcagctcagt tagcatgtta gaaatgtata 300
 tgatcaacat aaccggacca atgcaaacca aatcatc 337

<210> 51669
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-B8

 <400> 51669

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ctagaaaatg gagaaccgca gcaagactaa ttacgttcga aacatcaagt gatgctcatg 180
ttgggtcttt tgctccagtt gttagtcac aacaaaacta gacacctttt gctggtcctc 240
tttttggggg tgtaattgga tcgtgtacca agactagcat catttgcagc aataatacta 300
gagtagtaag attttgaatt taaataactt atgtcgggcc cttctttcag tattatctat 360
gtcaaatcat cgttcaagtc tcttttcttg aggaccagac cttgtttttg gttccatgcc 420
gtggggtctt tctttgg 437

<210> 51670

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C10

<400> 51670

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gtttgagcca tttccattct gcagagtttc tgctgtcta aaatgtccgt ctgctatctt 180
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atgaggcaaa ttgtcttacg ctgtacttga tgaactctgg agtattatca ctgctcaggt 360
tgaaaacggg aactatacaa tgtaatttca gcacagatta 400

<210> 51671

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C11

<400> 51671

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gaggttatgt ctatggtgac ggtcctcaca ctgaggtcac cagaaaatgc agcacgtgca 120
atggaagaag gctatgggac actggctata cagtcaatgc aaagggtccc ctccctccgtg 180

cagactcaga agcaagcatg ccttatgatt cgcaatcttg ttgccccgaaa ccctgagaat 240
 aggatcgtcc tgcttaatga tgggtgcagaa aagcttatta gaaaggcaat ggcgctgcac 300
 agaagctgta aagatgctgc ttcgtctgcc ttgagggacc tgggcctcga caactacaat 360
 gcatagacac cagtgaccag tcacaccata gaaaatgtgc gtcgagttag tttggtagcg 420
 gtagaatggt ttgga 435

<210> 51672
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-C12

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 ccaaacattg ctagaggcat agcgaaattc aatgttccat tggcacatat gatgtttgct 120
 gggctctgact tcattattgt cccaaattcc catctgttca tcacctggag gacttggtga 180
 cacggttgag gaggggtgtc accggattcc acatgggttc tttcaatgtc gagtgtgaaa 240
 ctgtagacct agctgacgtg acggcagtag cgtcaaccat cacacgggcc tagaacagta 300
 cggcaccctg gcgttccaag aaatggttca gaactgcatg gcgcaaaacc taccctggaa 360
 ggtgcctgcg aagaagtggg aagaagtgtc tctgggcctt tgagtcnagg ggagtcaaag 420
 ctgca 425

<210> 51673
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C2

<400> 51673
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 gtgatcctcc atctctaccc ctctctcaag ggtctcatgg gcaggcagaa ccgcacgcca 180

acaatcgta tcgtttgggc catcctcctt gcgtctatct tctccttgct gtgggtgaag 240
atcgatcctt tcatctcccc gacacagaaa gctgccgcct tggggcaatg tgggtgtgaac 300
tgctgatcca gattgtgact cttatctgaa gaggtcagc caaagatctg cccctcgtg 360
taaatacctg agggggctag atgggaattt tttgtttag atgaggatgg atctgcatcc 420
aagttatgcc tctggttatt agcttcttc 449

<210> 51674
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C3

<400> 51674

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gttagaacgc 130

<210> 51675
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 51675

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acggcggcgt gaagggttcc gtgtccaacc tcgtccacgg cggcggcggc catggccatg 180
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gcgccacgg gtacctcct cccgcgcgcg cgggcgcgta ccctcatccg cacggcgcgt 300
accctacccc gcacggcggc cacgggtacc ctntccccgc cacctacccc gcgcactcgg 360
cgactacgg gcacacgggg tcgtaccaca ccagccacaa cagcta 406

<210> 51676
<211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-C5

 <400> 51676

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 cagatgtacc ctcaaagca tgtgcagcat ttccaaatt tcatgccata tcgacaactc 180
 tattctccag ttaccccat gcctatgcc aactattcgc caaatgtccc ttatccatca 240
 aatggaaata attatcttca gatgccagtg ggaggttcac atttaactgc aagaagcgtg 300
 aagtatggag ttccacagtt taaaccactc ccatctggta acccttctgg ctatggaaat 360
 tacactcatc cagctggttt tacaatgggt tctcctgggt ttattggagc cacaagtggg 420
 gttgatgat 429

<210> 51677
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-C6

 <400> 51677

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 caacacagat gtaccctcaa atgcatgtgc accattttcc aaatttcatg ccatatcgac 180
 aactctattc tccactttac cccatgccta tgccaaacta ttcgccaaat gtccattatg 240
 catcacacgg aaataattat cttcacatgc ccagtgcagc ttcacattta actgcagcat 300
 acgctaacc ttaagtttca ca 322

<210> 51678
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-C7

 <400> 51678

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 ggcatatcgg gtgaaatgga acaaatcacc accaccacac caacaatcgc aagactcctt 180
 ggagcaggag gcatatcggg tgaaatggaa caaatcacca ccaccacaac aacaaacgca 240
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 gcaatcgcaa gactccttcg agccggaggc atatcgggtg aaatggaaca aatcaccacc 360
 accacaccag caatcgcaag actcctttga gcccaaggca tattgggtgg gatggaagaa 420
 acatgcgcaa ggagcaacgg ac 442

<210> 51679
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-C8
 <400> 51679

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 cagctcagga agatccagca aagcgacata ccactctcct atcatctggg ccttcttggc 180
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 tttgtttttg tttctgctgc atcgggagca gttgggcaaa ttgttgggtca acttgcgaa 300
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 gaaaaa 366

<210> 51680
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-011-Q1-K1-C9
 <400> 51680

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aagtcgtctc tgtaccacgc ttctcgtttc gtttgcaccc gtgatggtat ggtttggttg 180
 ttgcccgctg gacctatcta ttctttgcat ttttcctttg aaaaaaaaaa aaataaaaaa 240
 aagagcaaac aacttaaaga taatacttaa aaacttatta aaatccccct aacgatttac 300
 aaaaaactgt aaaaaaata cttccttttt cttccaacta aaaaaaaaaa aaagggggg 359

<210> 51681

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-D1

<400> 51681

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 acgttcagcc tagctgatta cggagagcat ggagagaacc tgtttcatcg gtacaacatg 360
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<210> 51682

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B3

<400> 51682

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 tacggcgctg gatggtggca tgcggagccc ggatgcgctg tcgggtgttg ctgccggctt 180
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383

<210> 51683

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-A10

<400> 51683

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ggcaacctgt gcgtgaacgg tccccccgcc ggcttgacgc tcaccagcc gccctacggc 240

gagaccttct ttggccgcgc cacctgccgc tgctccgacg gccgcctcgt cgtcgacttc 300

ctggccgaga agttcgggct gccgctgctg aagccgtcga agcagggcgg ctgagacttc 360

aagcagggcg ccaacatggc gatcattggc ggc 393

<210> 51684

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51684

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accacggcca cctcgcctac tcccacacca accaggcgct cctccgcccc aggtcgcttcg 300

cggccaagga cgaggtgttc tgcctgttcg aggggggtgct ggacaacctg ngctcgtctga 360

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acaagacgct gcgcg 435

<210> 51685
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-011-Q1-K1-A2

<400> 51685

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gaacgacgcg tacaaggaga tggtaggggca gcccgagtgc ccgtggctcg acgccgtggc 180
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<210> 51686
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-A4

<400> 51686

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<210> 51687
 <211> 397

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-A6

 <400> 51687

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 gcacgacagg atcagagaaa tacctcagac gcacggaccg acagaagaag aggatgatcc 240
 tgtacggact acactaccag aacgactggc tggatacggc cagagcgaac aagctgatca 300
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<210> 51688
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-011-Q1-K1-A7

 <400> 51688

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 cagtttgtgt cactgcttaa tgcttgatgc taggaatgta gaaataggta tctgatgaaa 360
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 gc 422

<210> 51689
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-A8

<400> 51689

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cacactgatg tctccatcct gctcgacaac gaggccatct atgacatctg caggcgctcc 180
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tcgctgactg cttatctgag gttcgatggg gccctcaatg tggatgtgaa cgagttccag 300
accaacctgg ttccttacct gaggatccac ttcattgctct actnctacgc accggtgata 360
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g 421

<210> 51690

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-A9

<400> 51690

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acggccagcc gaagccgccc gttggcagca acgtgcgctt ctctgcccc tttgcgggct 180
gcaacaggaa ccgcacacac cgccgcttcc ggccgctcaa gtcggcggtg tgccgcgcca 240
accatttccg gcgcagccac tgccccaagc tctacgctg cgagcgatgt ggccggcaaga 300
agcgcttcgc tgtcctggcg gacctccgca gccacctccg nactgcggc gaggaggcac 360
agtggcgctg ctctgcggc accaccttct tccgcaagga caagctcttc ggtcatctag 420
cgctctttg 429

<210> 51691

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B1

<400> 51691

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gagaggctag ctaggtggtc ctcgaacgaa gatgttggcg gtgttcagcg ggcaggtggt 120

ggaggtgccg gcgagagctgg tggcggcggg cagccggacg ccgtcgcca agacgaaggc 180

gtcgcagctg gtggggcgct tcctggccgc ctccgagccg gccgtgtccg tgcagctcgg 240

cgaccacggc cacctcgct actccacac caaccaggcg ctcttcgcc ccaggtcgtt 300

cgcggccaag gacgaggtgt tctgcctgtt cgagggggtg ctggacaacc tgggtcgtct 360

gagccagcag cacgggctgt caagcaaggg c 391

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<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-B10

<400> 51692

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ggcgaagaag ccggcggagg aggagccgc tgccgagaag gcgcccggcg ggaagaagcc 120

caaggcggag aagcgtgtcc cagcaggcaa gtccgccggc aaggagggcg gcgagggaaa 180

gagggggccg aagaaggga agaagagcgt ggagacctac aagatctaca tcttcaaggt 240

gctgaagcag gtgcaccg acatcggcat ctctctaag gccatgtcca tcatgaacta 300

cttcatcaac gacatcttcg agaagctcg cgccgaggcc gtcaagctcg cgcggtacaa 360

caagaagccc accatcacct nccgtgagat ccagacctcc gtgcgcctc 409

<210> 51693

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B11

<400> 51693

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ggcggggaac ggcggcagtc acgccgaggc tggcgteccac gattgcttcc agcactcgtc 120
 caagcgctcc tccatccgct ccatgctgca cgacgaatgc gtcgaaggca tcctctacgg 180
 gctcaaacat ggcacgatgc atttcatgat gcagctgctg aagaatccca tgtacattgt 240
 gtggccccctc ctgatgccgg ccgtgatctg ctctccacc tgctgctacg ctagccagta 300
 cggtatacaa gtttgcttgc atcacatgag ctgtcacgat gacatgactg atgagatgac 360
 tcatgaactg atacatgctc atgatgactg tgatgacgaa tatcttgact g 411

<210> 51694

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-011-Q1-K1-B12

<400> 51694

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 cccagccgtg ggcgcctcag actcgccctt gcagcctgtt gctgacggcg cctcaacgga 180
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 cacttccgtg cacaaatccc ttgggggcgg taaaactgct gacgttctgt tatggaaaga 300
 caagaaaact tctgctgttg taataggcgg cgcaactgtc atctgggttc tggtcgaagt 360
 gcttgattac cacctnctga ccctgatatc ccatgtactg attggtgtgc 410

<210> 51695

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-B2

<400> 51695

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 agtaattaac gggaggagat gtagggagag agagaaacca ccagaggcga gcgagcaggt 120
 gtgggcgtgg cgtgggggag gcgccgaggc ggtcggggcc gtagataaga gtcgtctcac 180
 ctcgctcgtc cagcctcgca tcgcacgaga ggagaaggag aggggaaggg ctagagagag 240

aaacaaaggt ggtagtagat gtgagccacc ctctttgtat cctcgtcaa cttctcctac 300
 caacttcttt ttctccccc accccttcct taccgtctcg cgccc 345

<210> 51696
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-H5

<400> 51696

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 gcccgctggt atattaccac tctggaggac ttcggattaa tccaaacttg tataacaatg 120
 ggaaagtgtg tcttagcctg ttgggtacct gggatggtag aggttgtgag aagtggaatc 180
 cagctcaatc gacaatgctg caagttcttg tctccattca agctctgatt ttgaatgaca 240
 agccatatta caacgagcca ggatatgagt cctatgccaa cactccgaat ggagagcggg 300
 tggcttttga ctataatgac a 321

<210> 51697
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E8

<400> 51697

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 gacgggacac gggaagagag gaggagcttg cttggacagc cgggagactg gtgctggtat 180
 atagatagct actagaggta ggcgggcggg cgggcggcca atgctgtcag gcgcgtatgg 240
 ctaggagcat gggcggaagg ggcgcgaacg ttcacggctt ccgtcgttg ttccaccgac 300
 ggagcg 306

<210> 51698
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F5

<400> 51698

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ggaaagtggg atggtagtgg gggcatcatc ggtgtccggc gccgcggctt ccggaggtac 120
ctctggtacg gctccgccgc ggaaggggaa gtcgtgcaag ggctgccttt actactcgtc 180
agtgtcaag tcccgcggtt acaacccaat ctgcgttggg atcccccggt ccatcccaca 240
agttcctaac tacgtggtgg atgagcctaa agaggacgcg acagcgcgatg ggcgatgatct 300
caggcggttc aagtacaggg tgctcggtta ctccatattc gtg 343

<210> 51699

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F7

<400> 51699

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ggcaatgctg gactgattgt cacatggatt actgatacta tgcattggaaa caccatcaag 120
gccccttggt gcctgaagac tcgtccattt gact 154

<210> 51700

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F8

<400> 51700

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gatgtcactc cttttatgga tgagcattct gctggagatg aggttttgct agctgtaact 120
gggaaagatg ctacagctga ttttgaagat attggccaca gtgattccgc acgggacatg 180
atggataagt accacatcgg gcagatagat gcttcaacaa tcccagcaaa gcgaacttat 240
gtgcaccctc aacaagcgcc caaccactta gacaagaata atgat 285

<210> 51701
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F9

<400> 51701

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tactcatgct tcttattgtg caactaacat acatactatc tcattcagtc cagtctattc 120
tgtctgcta tctccccagt caatttcttc cattcatacc atactgacag tcattgaacc 180
ttctcctgct taattttacca gcagcaacca actactatcc attcagctca gcttaagctg 240
gtgtgagccc ctgcttacct tcttgacaca taccactagt tgttgctcgt tctaccaagc 300
acgctgcgcc taaacgctgg catccctctt accaactgca tacaattgct gccattcata 360
ccaacttgc tttgacaaaa cccagcaggc attctaacca acatacccat catttggtgg 420
ttgcccttct tttaagattt cttaatgagt taatagttca ataattaaag gttttttg 478

<210> 51702
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G10

<400> 51702

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ccttttgtat cacctgattg acatcccgac tagtctgcat tctaccttgg atatgcgatt 120
gtagaatggt agtcgttgtc gtcatttata gaaatgcttg tgcaatatgt tttcctaaag 180
actcaciaat taactgcatg ttttgggtcc 209

<210> 51703
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G11

<400> 51703

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 cactgaggatc atcacggctc tgatgggtta ccagaccacc atgatccgct tcatgtccct 180
 gaataagttc gctactcct tcatttataat gccctgctt acatccagca taatcttagc 240
 ctacgtatgc cacatgcact tttacc 266

<210> 51704
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-010-Q1-K1-G12
 <400> 51704

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<210> 51705
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-010-Q1-K1-G5
 <400> 51705

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 tgcattcccc agacttcatt taaggccggg atggacgact acgcccggga gatgatggag 120
 ctcaagacgc tcgtaaccgc aaccttcaaa aggaagggcg tcctcgccat aattagggct 180
 gagctaagag caagcgtggt agaagccatt gaagaggagg actcgttgga gaatgatgat 240
 ggaggggaacc ctgctgtgct tgatagctga aatgaccgat ctaagcaact gaatgctaca 300
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 cacacaatg 369

<210> 51706
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-G6

<400> 51706

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cgaaagagat ctttcaagag acannaaagc caagctggtc gtggaaagcc tgaagcttta 180
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gcaaaacagg ctgtagaaag agctattcga ctgcgcaaca gagcccagtc tctcatgaca 300
aacgcagagc tcgcagcata caaatccgtc atggctctca agattgccga ggctgctaag 360
atatctgact cgtcccgaga tattgtttgt actatcctcg actaaagaaa aatatggggt 420
gttcattgat tt 432

<210> 51707

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E7

<400> 51707

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gacgggacac gggaagagag gaggagcttg cttggacagc cgggtggactg gtgctgggat 180
atagatagct actagaggta ggcggggcgg cgggcggcca atgctgtcag ggcgctaggg 240
ctaggagcat gggcggaggg ggcgcgatcg 270

<210> 51708

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G7

<400> 51708

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gggtggccaag tcgaccgata tgtttgtagc cggcatggct ctggtggtgg tgatatcgac 120

cacaagcaca tgctgtggca cagcgtcagc aagatgcgat cccaaaccgc tagtcgtgtg 180
cgatccagag ttcattgg 197

<210> 51709
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G8

<400> 51709

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taaaaccgga ggatattgat acctcggaac atcttctgac acttcttgca atcggtccca 180
aggactccca aaaagactgg ctatcaagct atgagacact tgatacatctt gtggtacctt 240
cgatcatctaa taagctctat gaataccacg aatatgctat ctacactgat acactatttg 300
cctaagttgt tgac 314

<210> 51710
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D10

<400> 51710

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atagtgtctg ccttggttct ccagcatata catgggtagt tcatctccgc tccattcag 180
gacgtctaga cttaaaaatg gtttgagatt tgattgttcg gacggagcca gcttgctgtg 240
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tacgcttctg acgtgctgta catttctata 330

<210> 51711
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D11

<400> 51711

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gctgggcggc atcaccgaag cgctcgccat cggcgtcgac ctcggtattcc ccgcctctac 180
cacgcaggaa gatcagacta actacgacaa aaccgatgat ttggtgaagg ttttgacgga 240
actgactgtc ctgcacatga acattgccaa cttgcaagtg gagctacacg gaagaaagga 300
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ggccagaatg actgcaat 411

<210> 51712

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D4

<400> 51712

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gtctgcccac catcaattcc catgactggt gttggtcagc cagcgtccac gccttcgttt 120
cccactccca tggccaccac cacggtgctc cccttcccgg cgtcgaccag gcacaagtcc 180
ggtgatggag ccctcacggg gaa 203

<210> 51713

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D5

<400> 51713

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tgaatccaaa acataaccat gatcacaaca tcagggtgctt tcccctacac gttgagtttt 180
gttactgata gtttcacaac atcgacagca ccaactaatg ctgctacaca catcaacagt 240

gctgccaag gtagctcatc tcagatattt aattctggtg tggccaagaa cgtagagcaa 300
ccatctggat ggtctgggta ttaactgcac atcgacatgc gttaaccatc attctggtca 360
aaa 363

<210> 51714
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D6

<400> 51714

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cgacaggaag aggtgcagct cgtcatggac aagatccgcg cggctgccac cggcactccg 120
tcggctcgct gtcgtcctga tcgatctact gtccgggtac accaacgacg tgggtgtgccg 180
cgcggctctt agcgcgtcac accggaacca acgcctgaac actctgttca gctagctgac 240
agatatcaac 250

<210> 51715
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-010-Q1-K1-D7

<400> 51715

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gtcggccggc tcgtcgtcgc agtcgcaccg gagcatctcc tcgctgtacg aggagcgggg 180
ccacggccag ctgcgggtgt tcggctacga ggagctccag ggcgccacgg ccgacttcag 240
ccgcgcgcag aagctcggcg agggcggctt cggcagcgtc tacaagggct tcatccgcgg 300
cgccgacggc aagggggacc gcgttcccg cgcctcaag aagctcaacc agcgcggtat 360
gcanggacat taagcatggt tggcggangt acagtttctt ggtgttctgg a 411

<210> 51716
<211> 363

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-010-Q1-K1-D8

 <400> 51716

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 aaccgagggc cgctgtccaa aaggtcacgt aacgacgtgt ctgtaaggga gggggactgg 180
 aattgtcctc agtgtggtaa tgtcaacttc agtttttagaa atgtttgcaa ccgtggagcc 240
 tgtggtgcac cccgtccatc accgagtcca agtccaagaa tgatgtcagg acctcctgct 300
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 ccg 363

<210> 51717
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-D9

 <400> 51717

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 ggacagacac gattgaaggt aatagtagat ggctcgcaag ggcattgctgg cacagttcca 180
 atgaaattgc gccgtgatcc gatggttgca gctgcagagc tcgttgtgac tctggaacgc 240
 ctctgtaaag agcccaacag tttgctgacc tactacgagg agtgcagctg cttcactgag 300
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 aacgtgattc cgggccaagt aaacttca 388

<210> 51718
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-E10

<400> 51718

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tttctactcc ctcatggcca atgccaatga ccacgtcaag ctactcgtca tctacttcat 180

agccccctgt tgcagttggg gccaaatgat cgccccctgt tactcatact gctccagcaa 240

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tctacttctt 310

<210> 51719

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E12

<400> 51719

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aaaaaaaaaa aaaaaaaaaa aaagaaagaa aaaaaaaaaa aaaaaaaagt aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaactaatt aacaaacaaa aataataaat aaacctaatt 180

aaaaaaaaaa ccctttaatc acaaaatttt acatttctct aaaataaaaa actacttaca 240

caaaactatc attttccata ttattaatta actcccctaa atcataattc aaactatcaa 300

aaatctcctt tta 313

<210> 51720

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C4

<400> 51720

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gctggtgagg cccggcgggc tcatcggtta cgacaacacg ctgtggaacg gctccgtcgt 120

gctccccgac gacgcgcca tgcgcaagta catccgcttc taccgogact tcgtcctcgc 180

cctcaacagc gcgctcgccg ccgacgaccg cgtcgagatc tgccagctcc ccgtcggcga 240

cggcgtcacg ctctgccgcc gcgtaagtg aaaaaaagaa gaagaagaaa aaaaacataa 300
taccctgcgt tcttgccttc ccggtgtctt gggccccact actgccaccg acggcggcgc 360
cgaacccccg ttccaatcat catatcgtag acgacgcgca gcattaaact atcaatcacc 420
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<210> 51721

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E5

<400> 51721

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ctgatgttac gaagaacggc ttgagatctc caaaggcaga atgttgccag cctgtgattg 180
agagcgtaa actaaagctg gcagagattt tgaatactat atcaactcaa gatgactgca 240
aatgttgca acaccaactt gataccaga ggaaaagagc tagatataac aagatgattc 300
gccggcatat tgacttccga atgcttcact ctaagatcaa gaggggcga atctcttgca 360
ccaacgagct ttgagagat atacttattt tcatcaataa tgtaataacc ttcta 415

<210> 51722

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A7

<400> 51722

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aaagaaggag gctgcatttg cccttgacgc tcttatggaa ataccttctc agtataaagc 180
aacgcaaggc cttcgacctc cagaaaagca agcaciaagg attggctctc ctaggattct 240
tcctcctcca aataaagttc ttgaaaatga taatg 275

<210> 51723

<211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B1

 <400> 51723

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 gccaaagaaat tgactccaaa atcatgacga tagtcaatgc ttcgaccctt acgactccat 120
 tcgcttcatt ttcattcagc gcaaccgcct ctttcgaggt tcaaagccca tcaaggatag 180
 aggtccaatt taaggagggg agctttcagc ctccgacaat atcatcatcc gtggatctac 240
 ctcaacaagt tgatatatattt gggcagaaga tcagcctggg gccagtccag caggcactga 300
 atccattgca gcaagcattt gctagcattg ctgggtccat tttctggcag ccacccc 357

<210> 51724
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 51724

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 gcctcggccg ccccgggctc cgctcggcc gcccggcggt ccgccaaggt cgccgatcgc 180
 atcgtgcgcy tactcgccat cgatctcgag ggggcgcgcc gcgaggtcgt cggcctctcc 240
 gggcagacac tcctccgtgc gctcgccaac gcggagctca tcgagccggc ctcccaccgn 300
 ctcgaggata tc 312

<210> 51725
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B5

 <400> 51725

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ggaatagagc gggttctctg cctcgtgtca ttcctatgta ctgtgggtctg cggaggccta 120
agttgcagcg cgctgagata gagttcacat ctaaatagac ggcttcgatt gcccttctat 180
gcctcaagct ctactgactc cttatgcttc ttattattcc actgtcttac tctgctgcgc 240
ctctgtccat aaacctgtcg ctgactagga accttctgca gcccgcggaat gacctgtctc 300
cagagggtcc agatcccgac cagcaagggtg cggatgctga tgctgggtacg gtgggagctc 360
tagaccatgg cagttaggta gcgagtagga tggacatcga tgtcaacgac ta 412

<210> 51726
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-B6

<400> 51726

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ggtatcgacc ctcatggatg catagtgtct ttcctatata ctgtgggtcta gaagacgcct 120
aagctgcagc gcgctgtgat agagttcaca tctaacaaga cggcttcact tgcccttcta 180
tgctcaagc tctactgcct ctttctgctt cttattattc cactgtctta ctctgctacg 240
cctctgaaca gaagcctgtc gctgactagg aaccttctgc agcccgcgga tgacctgtct 300
ccagagggtc ccgctcccgga ccagcaagggt gccgatgcta atactggta 349

<210> 51727
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-B7

<400> 51727

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gccctctcct ttgtagcagc tatgtttgcc ataggctctc atgctgatgg agactgtgag 120
aatgacctcc aaagcctgat aagtgactgc aagacatacg tgatgttccc agctaacca 180
aaggccctc ctteggatgc ttgctgtggt gtcatacaaga aggcaaacgt ttcttgcttg 240
tgctccaagg tcaccaaaaga aactgagaag gttgtgtgca tggagaagggt tgtgtatgtt 300

gctgagcagt gtaagaggcc atttgagcat ggcttccagt gcggaagcta caaggttcca 360
gcaaactgat gatatcgcaa gaaggaagcg cttgacgtag tcttt 405

<210> 51728
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-010-Q1-K1-C1

<400> 51728

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gtgtgggaag tgggtggagag aagctattgc ctgagtggta ctcagagaaa ggcattgagc 120
tgatccttag tacagaaatt gtcaaagctg atctttccac caagactctg actagtgcag 180
ctggagcaaa ctttacatat gagatcttgc tcattgctac tggctcctcg gtcataaagc 240
tcaccgattn tggcacacaa ggagctgatt ctaacaacat tctatatcta agggaaattg 300
atgatgctga caaagctggt gcagctatcc aggcaaagaa aggtggcaag gcaatggttg 360
ttggaggagg ttatatcggc cttgaactga gtgcagccct gaagatcaat gactttgatg 420
tcactatggt gttt 434

<210> 51729
<211> 268
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C2

<400> 51729

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tgcacgcagt tctattctgt tttatatcta actcaaata tagttggttt ctaatatagc 120
ctaagagaat cctggacaac taagaccgta gcctatgtat aacatattct aacaaaagct 180
gcctggccta agcagctgag attgtgctgc ctggccaggg caaccaagct gcctggccta 240
gttgtaacat attctaacaa cgtttact 268

<210> 51730

<211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-C3

 <400> 51730

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 agaaaaagtg aaaatattaa aataaaatat aaa 93

<210> 51731
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-A6

 <400> 51731

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 ggggtaccaa gtccctcttc aagggtgctg gcgcaaacat cctccgcgct gtagctgggtg 120
 ctggtgtcct tgctgggtac gacaagctcc aggtggttga cttcggcaag aagtacgggt 180
 ctggtggtgg ctaaggatgt ataatgatga tgacaacgaa caacaaacat gatgttttag 240
 gtgcctcctt taagtaaaca tacttacgga ccttttacac catttta 287

<210> 51732
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-F3

 <400> 51732

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 ctagaacccg catgctaaag gaatatTTTT actcaaaacc aacctaacat gtgaaccttt 120
 tgaaccaaac acggattgat gcatgttcaa cccgttcaa cccgctaacc aaacacaccc 180
 tctgtgacgc gagcaggttg gggacttggg attggggttc ggggagagct gaaagggaaa 240
 tgtgcccttg ggccatttct aagtattttg gtgattgagt gccaacacaa gtgattaaat 300
 gtgaatctat gcccatggat ggacaaagtg caaatcaaga gtaaagggtat gtttct 356

<210> 51733
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-F5

<400> 51733

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gcacgggcg cgcctaata aatcccctgc gctccgcgcc cgcgggtcg caaccctaac 120
cttctctccc tgcctcgccg ccgccacggt cgcctctact gccatggtga gcgctgaagt 180
cggcatcgat tacgtgctgt ggacggagga cgaggtgtcc acccgcgtag gcgaggtcgc 240
cgccgagctc gcggggcgacc tgcgcgcgtt gccggagccc gccgtcatcg tcggcgtcgc 300
cacgggcgcg ttctctcttc tcgctgacct cgtccggcg c 341

<210> 51734
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-F8

<400> 51734

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gcccgaacgc accacctacc gccagggaag caagcccatg gaacgcgatg atcccatcgg 120
ttgctccgtg tcaccaagcc catgttcttc gtaccaacca agtccgcggg cgtcatacaa 180
tgcaagccct acctcgctct cattccccag cggcgcatcc tcccccttc tccctcccaa 240
cgaaatgccc aacggtatcg acggcaatcc aatcctacca tgggtcaaga cattctccaa 300
cggcactcca tcaaagaaac acccgctcct ccca 334

<210> 51735
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-G1

<400> 51735

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gtccacttgc acgcgggttg ctgcgcctc aggaatacag gactgaggtc caacgacctc 120
tacaaccctt acttcaatct ggacatcatg gacgcgctcg gtaggctgcc tagggaggtg 180
gcaacccccg catcatcgcc taaagcgtgc catggacctg tccatgaagc accagcacct 240
cccggaggac ctccaggcac agcaggttcc attcagagga tatttgagtg acatgttggc 300
gttggtgaaa aaggaaagcg ccgagcgtca gtcactggga gcccc 345

<210> 51736
<211> 173
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-009-Q1-K1-G3

<400> 51736
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acggcggcnc gattccgaag cgcacacact cgctccagcc aaaagcatcg cagcttctaa 120
tcgatcggag agcacacacg aatgtcgtac gtgcagctct atgctgctgg agt 173

<210> 51737
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-G6

<400> 51737
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ttatcctcag taagaatgac tcggatggag attcgagcag ccaggtgggc ttcttatgag 120
gtcacctcc gatacgcgt gacaaccctg ttatccatga tccacagttt ggtaaaagac 180
tgccatcctt ttctcctcta ggaggagct cctatggcaa aatgccagca gtacgagttg 240
aagtaggctc gccatcttgc ggcgttagca gcagcccaaa agtaaggatt gaaggtttcg 300
cctgtggcaa ctccgagacc cactatgcag ttacctttgt ctg 343

<210> 51738
<211> 330

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-G7

 <400> 51738

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 gggggacggc gtggaacctc ttcaagatcc ggaaggccgt cagcccatcg tcctccatgc 120
 ccgggaacat ggtcaagagc gccatcaaga acaggaactg acgtcggcac cagacagttg 180
 ctcatgtgct tcctcttgat gatcatatac ccagaatgat cggacagtaa ttcaatgcgc 240
 tcctcttact ctggatgata atgtacccat aatggcgtgt aactatcgtg tgtgcacccat 300
 cgacattaac aaatacttgt tccaacaact 330

<210> 51739
 <211> 249
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-G8

 <400> 51739

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 tgcagggcga ctttctcgag cgcgaggcca gcctcgtgct gaggctcggc ttgctgtgct 180
 cacaccgct gcccggcgcg cgcccggtca tgcgccagat cgtccagtac ctcgacggcg 240
 atgcgccgc 249

<210> 51740
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-H1

 <400> 51740

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 ggccgcgcgc aacctccgcc ctttcttctc taagggggat cggatacgcc acaggctgcc 120
 cgatggtgct gtgggtcttc ggctacggct ccctcatctg gaaccccggc ttcgacttcg 180

acgacaaaaat cctcggcttc atcaagggct acaagcgac ctttaatctc 230

<210> 51741
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-H2

<400> 51741

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ggggcctttt gttcaacctt tgtggtccac aaccaacca gttccggaga ttaatttatg 120
ctggaagtag gggcctgaac ccgctggagg taaaagggtc ccaaaattaa aaccttcaat 180
ggcatgtaaa ataaggttcc ggaaaaagga aggggggtggg gcgtcttttg ccataagggt 240
tcgaataaaa ggaccgcggt cctttt 266

<210> 51742
<211> 234
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-009-Q1-K1-H4

<400> 51742

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tcaatctttc tttccaaaac ctcttttnc atgtttctct cctcttttat taaattactt 120
tttaccatc ttcacattct tatctacatc tttntttaa acacattgtt tggttttatt 180
tggttgatca ttaaaacaaa cttgaagac acccataaaa acacattcca acac 234

<210> 51743
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-H6

<400> 51743

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agatgatccg tgaggccgat gttgacggcg actgccagat caactacgag gagttcgtca 120
 aggtcatgat ggccaagtga ggagcgatcc ccgttatcta tgaatgaatt gaagtgaaat 180
 atcaggcaca caagctgtac tttgccatgt cccctttgag tacacatcag tatcatgcag 240
 gaggtaatgt ctagtagtgg tcggtttagg tgggtgtagtc atgggaactc gacatcagat 300
 acctgggtctc ttttgattgt gatgttaatc tgcattattg ctctgctgg agcctttagg 360
 atttgttgta agctcatatt ttcagggg 388

<210> 51744
 <211> 52
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-H8

<400> 51744

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<210> 51745
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A11

<400> 51745

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 aatgaccttc aaagccttat aagtgactgc actacatacg tgatgttccc atctaattcca 180
 aatgtcccta cttccgatgc ttgctgtcgt gtcattaaaa aggcaaactg ctcttgettta 240
 tactccaacg tcaccaaaga tactgataaa gctgtgtgca tagagaaagt tgtgtatggt 300
 cctcagcact gtaagacgcc atttgagcat tgcttccaat gccgcagcta caaag 355

<210> 51746
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-F1

<400> 51746

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aggggtcgac gtcagcgagt ggctggcttt aacccccgtt tgtttcggca aaaaaaccaa 180
aacctttgcc gccttttt 198

<210> 51747

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A2

<400> 51747

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ggaagtggta ttggattttt ttagcttggg gttaaagaaa agacagtcac gtactttgca 120
tcttttttgt atttatgttt tatgctaaat tgtggaataa cactatatta gttgttagca 180
aagaatttct gagatattaa ggttgatgat aaaaa 215

<210> 51748

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-A3

<400> 51748

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cctggcgctg acttacctcc gagtctccat ggctggatca gggttctgcg acggcaagtg 180
cgcggtgagg tgctccaagg cgagccggca cgacgactgc ctcaagtact gcgggatctg 240
ctgcgccacc tgcaactgcg tgccgtccgg gaccgcgggc aacaaggacg agtgcccatg 300
ctaccgcgac atgaccaccg gacacggcaa ccgcaccagg cccaaatgcc cctgatgata 360
ttccttcctt cgctcncggg agccaacttc cagctggggc tgctcngcat gcctatgtaa 420
t 421

<210> 51749
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A4

<400> 51749

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ggaggccaag ccggggaaca gcgccgtcga cggcgctcga aacggcaagg agtacgagaa 120
gatcgagtgc ccggacctga atctcgtgca ggagaaccag atcatggtct ccgagtacac 180
caggctgtcg tgcgcggccg tggaaacgca gagctgcgac agcctcctga cctcggagca 240
cgatgactgc tccacgggtcc tgagccggga cgccgacgtg cgcctcgtag atagcttctc 300
gaccgacaac aacaccgccg actcgggtggg cgccttcacg agcgacacgc cggtcagcag 360
cgtg 364

<210> 51750
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A5

<400> 51750

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gtggggctgg ccctggccac gcccgagttc ctgctcttca gcccctgtgt cgtccacgcc 180
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gactacgtcc aggaggcgcg ccgc 324

<210> 51751
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-B8

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ctcccatttg tgcggtgatt ggtgattgga attaaagccg gagtgaggga gatgcctgct 180
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<210> 51752
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C1

<400> 51752
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accaagagg gagatggccc taccactgtc accggaagtg tctctggcct caagcctggc 180
ctgcatgggt tccatgtgca tgcacttggg gacaccacca atggctgcat gtctactgga 240
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ggtgatcctg gaaatgtgac aactggag 328

<210> 51753
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C3

<400> 51753
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tggttggtgt ccgctcctctg gagaagactc agatgctggc cattcttgat atcatcctaa 180
aggaagtcaa gggccgactt ttggccctcg ggataggttt ggaggtgtct gatgcaatga 240
aggacctgat atgccaaagag ggctacgaca aaagctatgg cgctcggcct ctgaggagag 300

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330

<210> 51754

<211> 56

<212> DNA

<213> Zea mays

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<400> 51754

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56

<210> 51755

<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D1

<400> 51755

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gacacactag tttctctctg atctctatct cctccctctc tcgagtcaag agcagatcat 120

ctaccaaaca agctcttctt tcgcttgcaa tccatggagc tcgacgccga caaactgatc 180

gccaccgatc ttc 193

<210> 51756

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D3

<400> 51756

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ctctctcgat ctacgccatg gcggatgtgg agcagcaaca ggacacgccg aagctcttca 120

accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180

tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc gggacgttac tccaagaagc 240

ggttccgcaa ggcgcagtcg ccgatcgctg agcgcctcac aaactcgctc atgatgcacg 300

ggcgcaacaa cggcaagaag gtcattggctg tccgcatcat caagcatacc ctggagatca 360

tccacctgct caccgatgcc aaccccatc aggtcgctgt cgacgcgac a 411

<210> 51757
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D5

<400> 51757

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aactctgtct tccactgccc agaccacat tgagattgac tcgctgtacg agggcattga 180
cttctactcc accatcacc gtgccagggt tgaggagctc aacatggacc tgttcaggaa 240
gtgcatggag cctgttgaga aatgcctgag ggatgccaag atggacaaga gcagcgtcca 300
tgatgttgct cttgttggtg gctccactag gatccccagg gtgcagcagc tgctccagga 360
cttcttcaac ggcaaggagc tgtgc 385

<210> 51758
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D6

<400> 51758

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cctccggtcg acagatccac ttaccgacct ctgcgcggcg acgttggcgg ggatgtcggg 180
gtccccggct gcggccgcgg tgaagctcac cgggcactct gcaacgagcg tgctggcgtg 240
ctgtgagctc tcccagggcc aaaatgggaa ggatgggtga tgaggagatc agaccgaatg 300
attcaatatc ct 312

<210> 51759
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D7

<400> 51759

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ggctctcctt gctgctgacc ttaagaagaa agctgaaaca cttgacaggt tctgcaatgc 180
cgatcatgac gaaaccgaag ccagttccta agccacagac tccgcctgcg gcaaataccc 240
aagctcctga gcctcataca ccggagcatc agcgatcaaa tggcggaagc acaaccagcg 300
agggag 306

<210> 51760

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-D8

<400> 51760

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aactcgatgc ccccccgctc gccgcagcca cagccgctcc gagcttgagc cgtcgttgct 180
ccgctgaatc gcccccatcg tctctcctga agagagagga catttattga gacagcatgc 240
ctaagataaa gacaagtcgt gcctagtatc ctgaaggacg ggagcttatt gaaccaacca 300
tccttgagtt gg 312

<210> 51761

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E1

<400> 51761

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gtgtctctat ctgagccatg gccaccag aacaccaaca ggacactccg aatctcttca 120
accgatggac cttctatcat ctctcacga acgacatctc ccttaacgac tacctagctg 180

tgaacgctac gaagcacgcg atgtacctgc cgcacacacc tgtaccttac tcca 234

<210> 51762
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E3

<400> 51762

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tcattattcc acaatgctca cttgctccaa gttccattat tacacagttc ctcccaccag 180
ttacttcaat gggcttcgaa caccagctg tgcaagccta taggctacaa caagcaat 238

<210> 51763
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E4

<400> 51763

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gaatggcgac cggctccagtt aaccctaaaac cttttctgaa caacctgaca tgaaagcctg 120
ttattgtcaa actcaagtgg ggtatggagt acaagggtta tcttgcttct gtggactcat 180
atatgaatct ccagcttgcc aacctgagg agtacattga tgggtcaattc tctggaaacc 240
tgggagagat tctgatcagg tgcaacaacg tcatg 275

<210> 51764
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E5

<400> 51764

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taactgtaga cccagcttca catcctcagc tccatgtttt cttaaaacag gttgttgggt 180
 tggatttggg ggatgatgaa agcaaacctg aaagacgccc aacaaaacac atgccaacac 240
 ctgagcaatg gactaatatt ttcaatccag cctatgcgta ttatgtgtac tattgctatg 300
 ccaatctgta tacactgaac aagcttcgtg agtccaaggg catgacaacc atcaaacttc 360
 gtccacactg tggg 374

<210> 51765
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E6

<400> 51765
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 gcttggcgcc gccgcgccc tcgtcttctc atgcatgggc gccgcgtacg ggaccgcgaa 120
 gagcggcgtc ggcgtggcgt cgatgggtgt gatgcggccg gagctcgtca tgaagtccat 180
 cgtgcccgtg gtcatggctg gtgtgctcgg tatctacggg ctcatcatcg ccgtcatcat 240
 cagcacgggg atcaacccca agtgcctgcc ctactacctc tttgatggct acgcccacct 300
 ttcgtccggg gctgcctgtg gtctcgtctg gctt 334

<210> 51766
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E7

<400> 51766
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 gcaccggggc cgccctaata aatcccctgc gctccgcgcc cgccggctcg caaccctaac 120
 cttcctcccc tgctccgccc ccgccacggt cgcctctact gccatggtga gcgctgaagt 180
 cggcatcgat tacgtgctgt ggacggagga cgaggtgtcc acccgcgtgg gcgaggtcgc 240
 cgccgagctc gcggccgacc tgcgcgcgtt gccggagccc gccgtcatcg tcggcgtcgc 300
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<210> 51767
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-E8

<400> 51767

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aagcactacc gatttaaaaa aaaaaagggt gtctttctct agagtgccca gcctttcttc 120
ctctttaatt caacctaat 139

<210> 51768
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-B7

<400> 51768

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atcagaggaa agaaaatcgt ttgggtaatc ggatatttga ccttttcgat gtcaagaaaa 120
ggggtgccat tgatttttgt gactttgtcc gagctctaaa tgtgtttcat ccaaatatcc 180
caatggatga aaaaattgat ttctcgttca agctatatga tatggatagc acagggttta 240
ttgaacggaa ggaggttaag cagatgttaa ttgctcttct aggagaatca gaaatgaggc 300
tatctgatga tatcattgag acaatcctgg ataagacatt ctctgatgct gatgcaaadc 360
aagatgggaa aatagataga acagagtggg agaattttgt cac 403

<210> 51769
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G8

<400> 51769

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aaaatctggt gtcgtgttgg atttggtgcc accactaaca aagggttaaca acctgatatt 120

tgggcgcact tgggttgatt ctctggaga gatggtcacg acgaacctga caactggaga 180
 caaagttgtg ctatatttcc agccatgcgg ctgggttggg gctggccgtt acgaggtgga 240
 tgggtatgtg tacagtgcag cggaagaacc caaatcatg attacaggga agtgaacaa 300
 gtcctgagt tgccaacat g 321

<210> 51770
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-G9

<400> 51770

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 agcagccgca tcgatggcgc ccaaggcgga gaagaagccg gctgcgaaga agccagcgga 120
 ggaggagccc gctgccgga agggcccggc ggggaagaag cccaaggccg agaagcgctt 180
 cccggcgccc aagtcgtccg gcaaagaagg cggcgacaag aagggttaaga agaaggcgaa 240
 gaagtcggtg gagacctaca agatctacat cttcaagggtg ctgaagcagg tccaccccga 300
 catcggcacg tttccaagg ccatgtccat catgaactcc ttcataacg acatcttcga 360
 gaagctcgcc ggcgaggctn gccaaagctgc gcgctacaac aagaagccca ccatcacctc 420
 tcgggagatt caaacctct 439

<210> 51771
 <211> 295
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H1

<400> 51771

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 aagaggacaa gatcaaaaaa aaaacagaaa acaaaaaacc aaacaaaaac aataaacaaa 120
 aacaacaaac gggccgcccc ctcaaagact cccaacttta cttccccgca cttccaacct 180
 caaacctctc ctatcacccc cccaaaatca aactgcctgc cccccacttt caaacctata 240

tacctggaaa accccagcca taacccaact aaatcccctc tcaaaccatc cccct 295

<210> 51772

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-H11

<400> 51772

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aatcttcttg ttttctttca tctttccaga actcacaaca ggggtccaaa tttgttaaga 120

caggtttaga tagttcaagt aacattggga gctcatcaat tgcacctccg aagaaagttc 180

accctggatc aaatggaatg cttccgcaag aagaagcggga tatgccatca catctctcta 240

tatccactaa gatgctacca ccaccctga agagcatgct gccactgcca ccagaagca 300

tgccccacc accacctaag agcatgcctn caccgncacc aaaatttcct tcagatgagt 360

ttttgtcaag aaacgagaac aagttttttc ctttaaagga gccaacagca ctttcaaggt 420

cctttgatgc aatatcagt 439

<210> 51773

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-H2

<400> 51773

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atgttggaat tattgaatca actggatgga ttcagcagcg atgagagaat aaaggtcata 120

gctgcaacta accgtgctga catccttgac cctgctctga tgcgatctgg acggttggac 180

cgaaagattg agttccctca cccatccgaa gaagcaagag ctagaatctt gcaaattccat 240

tcaaggaaaa tgaatgtaaa tcctgatgtc aactttgaag aattggctcg ctcaactgat 300

gacttcaacg gagcacagct aaagggccaa gtttttggtg taggaaagct tggtnnatgc 360

ttggcccttt tacggcggga atgccttaca gagggtaana ctacgaagg gatttcaatg 420

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433

<210> 51774

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-H3

<400> 51774

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ggccgctagg ctttgcgctt ttgcctgcat cactcgctca ttccggagccc ctctcttcgc 120

cggcgtcgta agaagagatg gcagagcggt tgacccgtat cgccatagtt agcgaggaca 180

agtgcaagcc caagaagtgc cgccaggagt gcaagaagag ctgccccgtc gtcaagactg 240

ggaagctttg cattgaagtg acttcggcgt cgaaactcgc ttctatttct gaggaactgt 300

gcatcggttg tggatatctgt gtaaagaaaa atggccccnc atttgatgcc ccattganna 360

atcatcaa 368

<210> 51775

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H4

<400> 51775

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agccgtggtg cacgtcaact tctaccgcaa ctatggtaag acgttcaaga aaccaaggcg 120

tccttatgag aaggagcgtc ttgatgctga actgaagctg gttggtgagt atgggctgag 180

gtgcaagcgt gagctttgga ggggtccagta tgactgagc aggatccgta atgctgcaag 240

gcacttgctc acccttgacg agaagaacct ccgtcgatc tttagagggtg aggcacttct 300

tcgccgcatg aaccgctatg ggc 323

<210> 51776

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-H5

<400> 51776

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cggtccatcc aggaagttat cgctaattggc attagcgtca acgtcacgct tattttctca 120
attgcaagat atgaggctgt gattgatgct tacctcgatg ggctagaggc ttctggcttg 180
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gcagtagcac aggccaaact aagccaaaaa attcggcttc ttaccannga agaaatnntc 360
tctggcccaa aggggtgggaa ggccgttggc ccaaagaaaa gggtgccaaa gaaac 415

<210> 51777
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H6

<400> 51777

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cgagcgcgcg aaagtatcag gaggaggcat gggtagcctg gggcgcgcga tcttcacggt 180
gggcaagtgg atccggggca cggggcaggc catggaccgc ctcggatcca ccatccaggg 240
cggcctccgc gtcgaggaac aggtttcaag gcacgtaca atcatgaata tttttgagaa 300
agagccaagg atccat 316

<210> 51778
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H7

<400> 51778

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attgttcacg ttaccaatt tgttctttat tgatgggtca agataagatt tttgtatgga 120
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 ttccacttcc catttgcatg ttgtacttcc atagagagat caatgaactg ttatgaagag 240
 tcaactgcaac tgtggccttt gatctttgtg aagtcacata cagtaattgt tgtagattt 300
 gcaaatacaa ggctgtctgt 320

<210> 51779
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H8

<400> 51779

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 aaaagagcgc tcgaatatat aactttactc caaatgactg atggacgttc tatactcact 180
 gtactcaaat aactatgggg atcctcaact tacatggatt gattaacatc cacctttcac 240
 cagttactgc 250

<210> 51780
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-H9

<400> 51780

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 cgaaaggaaa tgctgctgct cagggcagtg ctggttcac agagaaccat tcggcccaag 240
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 gtggttctgg tggaaataag aaaggtgatt ggtacaagga aatggctagt tgcgatatgt 360
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acattgatga gcc

433

<210> 51781

<211> 311

<212> DNA

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<223> Clone ID: LIB3079-009-Q1-K1-A6

<400> 51781

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ggaaagggtta gcaactgaaac aatctggagc agaactgggc acttcaatcc ttttctttgg 120
atgcaggaac cgtaatatgg actacatata tgaagatgag ctgcaaactt tccttgagga 180
gggggcgctt tctgagctaa ttgttgcatc ctctcgggaa gggccaacta aagaatatgt 240
gcagcataag atggtggaga aggccacaga aatttggaac atcatctcac atggtgggtta 300
cttatatgta t 311

<210> 51782

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-A8

<400> 51782

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caaggaccac gccggcccgc tccgccccag cgttgacgcc gtcgagctct ccgtcaaggg 180
cgtcgttagc cccgtctacg accgcttctg cggcctgccg ctgcacgtcc tcgccttcgt 240
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tg 362

<210> 51783

<211> 233

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-009-Q1-K1-B1

<400> 51783

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ggtcgaggtg ggcggnggaa gtctgcgaga aggtgacgag tcggagaagg agagggccac 180
tgttctgcgc aacaaggcgc cgatgtggca cgagcagctg cagtgtctgt gcc 233

<210> 51784
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-B3

<400> 51784

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<210> 51785
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G7

<400> 51785

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gcattgcccg ccgggagagt ttgtccggga gatccactc cctaccgaa tccctgaaga 180
cgccactctg gaagcgtact gcgatgaaac agggacaggg ctggagatta ttgtcccgaa 240
gttccgcgtt ggccctgaag aacacgaagt gcatgtgtcc atgaggccac cctcgtcctg 300
gtgccaatga aacctgtttc ca 322

<210> 51786
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F1

<400> 51786

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ctccgccccg gccgctgcga agtgagaagg gaaaacacga aacgatcgag ggaggggacg 180
acggagcgag ctagctagcg gcgcggcggg cgtcgctcgg catggacgag gaggctgcag 240
cggccgcggc ggcgacagcg gtggacgaga gggagcggct gctgacgaac ttcgcgtccg 300
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<210> 51787

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F10

<400> 51787

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tcgagcgtgt gccatcaac tacgagagag cgctgcagaa ggccgtggcg caccagcctg 180
ttagtgccag cattgaagca tctcggcgcg cgttcagct ctacagttct ggcatcttcg 240
acgggagatg cgggacgtac ctggaccacg gtgtgacggt ggtggggtag ggcagcgagg 300
gcggcaagga ctactggatc gtgaagaact cgtggggcac ccagtggggc gaggccgggt 360
acgtccggat ggcgcgcaac gtcagggtga gggccggcaa gtgcggcatc gccatggag 419

<210> 51788

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F11

<400> 51788

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acttcagttc gagctttgtc acatatcact caattgttaa gaacctcact ccaactctcc 120
aagccattgt agaacataga ggcgtattgc cacttgcat gattcgctcg tcacacacaa 180

aatattatca tgtgctacac caattctgga agctactaga ggaaaatgtg aggaatataa 240
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 aaactccaag tagatgtgct ctgggctctg gcatgtggta tgtgatgaag tcgaggatgg 360
 tttcttgccg tttgatgacc agtgtagtcg ttgggttaact tgtcagtcgt aaactgatgt 420
 tgtcagtta 429

<210> 51789
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F3

<400> 51789

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 cattctgtcc tcgctgtgtc catgctacga agccggcggc tgtatcggga agccgccccaa 180
 gacgccggcg ccgaaaaggc cctgcttctc gccctactcc gaggaccact gtgaccgcca 240
 gaactgccgc ttgctctgca tgtcgcacgg ttacagtgcg ggtggctggg gtgacgagag 300
 ggaggtgcgc aaaatgtgct gcttgctaac cccatttttag tt 342

<210> 51790
 <211> 398
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-F4

<400> 51790

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 ggtgcccgtg gacttctggg tgagcccgtt cgggcagcgc tgccgcacgc cgctggcgga 120
 gaagggcatc gcctacgagt actcggagca ggagctgctg ggcggcgcca agagcgacat 180
 cctcctccgc tccaaccggg tgcacaagaa gatccccgtg ctctccacg acggccgccc 240
 cgtctgcgag tcctcgtca tcctcgagta cctcgaggag gccttccgga ggccctccca 300

ggctgctccc gacgccgcta cngcgccgcg cgcaggcccg cttctgggcg gcctactccg 360
acaaggtcta cgaggccggc acgcggctgt ggaagctc 398

<210> 51791
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F5

<400> 51791

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gtagtctttg ttttaagtgt tcggtaacag tttgtgacag tataatctgg taaaccgtgt 120
tatttttctg ccaactctat ttgaacacat tttctagctg gtgaatgaac tgtttggtcg 180
atcttggttc 189

<210> 51792
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F6

<400> 51792

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gcggctcttg caccgcgcgg gtcggacatg ttctccacac tgagaaagac ttcacggaca 120
tacacttctg acctgccggc ttactctta ggactgccgg cagagtcgca acgtgcctct 180
cggccgcaca agtcacatcg cactagaggc tgccgagagc ctgtggaaga catcgacgcg 240
cgcaacgtgc tggagcggct gcagacggcg cacctgtacc ggctgccgag gctcagggcg 300

<210> 51793
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-F8

<400> 51793

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gtctgtcgaa ctctgctgcg tacctacaac agcgacaaca gttacttaat ccattggtag 120
 tggctaacc attggtcgcc gccttcctac agcagcaaca attgctgcca tacaaccagt 180
 tctctttgat gaatcctgtc ttgtcgaggc agcaacccat cgttggaggt gccatctttt 240
 agattacata tgagatgtac tcgataatgg tgccctcata ccgacgtgtg tttcctagaa 300
 ataatacaata tattgattg 319

<210> 51794
 <211> 445
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-F9

<400> 51794

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 gctggccgcg gtgctgctgt ggtcggcgct cgcttcagcg gccacggccg cgccggcgcc 120
 tgtggtggcc gggccggtgt ccagggtgga ggacgccacc atgttcgga tatactacgg 180
 tcagagcttc aaggtcatca agaactccg cgatggcaag agctaccttc tcatgcagaa 240
 caggtccaag atggcatcca agacgaagta ctgcacggng aggattaagt cgttcgtcat 300
 cccctcgcc agcttctccg tcgacaccac gacctctcca gtgtcattct ttgagctgct 360
 tggagtgcta gagagcttga aaggaataac atcgaaccaa gtcgcttctc agtgcgctgct 420
 ccagtcatat acaagtggaa atgcc 445

<210> 51795
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G1

<400> 51795

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 taacatcatt cagacctgac tgtaagctgt gcaaagtctt ctgtcttaac gaagtgactg 180
 aatgcttcgg tcaccgcatg tctgtgtgat gactgtagct gaagtacacc tatgaggaca 240

agctgcgcaa gggccgaggc agaaggtagc ctcaagggca tcctgggtta cgttgaagag 300
gaccttgttt ccaccgattt 320

<210> 51796
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-G11

<400> 51796

gcaacatata aagcacaata gtgttccaac aatggcagcc aaaatatgat gcttgcttat 60
gctcctaggt cttactgcaa gtgctgtac cgcaaccatt ttattacaat gcttacaagc 120
tcctatagct gcctatctta ctgcatacct ctgaccagcg gtgtctacag tatgtgaaaa 180
cctaattctt caaccctaca ggatccaaca ggcaatcgca gcacgcattt tacctgtatc 240
acccttgta ctccaacaac tgtcagccct attacagcag gtacctatgg tgcatttgat 300
gacacatgac atcaaggtac aacaactaca acaacttgtg ctaggaaacc ttgctgccta 360
ctgtcagcaa cagcagcatt gttgcattca accgactggc tgcatagaac tc 412

<210> 51797
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-G2

<400> 51797

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agtcaagttg cggggcgtgc cgaagggcgg gagtgcgctc gtgaaggtgg cgctgctcgg 120
cggcgcgggg ctctacgccg tcctcaacag cttctacaac gtcgagggcg gacaccgcgc 180
catcgtcttc aaccgcctcg aggggatcaa ggacaaggtg taccgccgaag gaactcacct 240
gatgatcccc tggatcgaag gccgatcat ctacgacgtc cgcgcccgc ccaacctcgt 300
cgagagcacg tccggaagcc gcgacnctt cncaagaatg gggatgaagaa ttgggnntct 360
tcgtggtccc ttaactcgac ncnncatgcc aagaaccaag cttaccttaa aaatctaca 419

<210> 51798
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-G3

 <400> 51798

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 tgaggaatgc agattgtgcg agaagtggag aagatttttg gtcctaatga caaaagactg 120
 gtccagcaac ttgttggcgg agctaatactg tccaggcagg aagaagcatt gaagaagaac 180
 aaaccaatca ttgttgtcgg aacacctggc cgtatttctg aaatttctgc agcaggtaag 240
 ctacacactc atgggtgccg ttttcttgta ctagatgaag tcgaccagct tctgtctttt 300
 aattaccgtg aagatatgca tnagaatttt 330

<210> 51799
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-G4

 <400> 51799

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 tccatggccg tcttcgtcgc gccgctcagc atcatcgtca aggtgggtcaa gaccaagagc 120
 gtgcagttcc tgcccatcag cctctccttc tgcttcacgc tcagcgccgt cgcttggttc 180
 tgctacggcc tcttcaccaa ggaccccttt gtcatgtacc ccaacgtcgg cggttcttc 240
 ttcagctgcg tccagatggg cctctacttc tggtaccgca agccccgccc ggcgggccaag 300
 aacaacgccg tgctgccgac gactcacgtg taccggggcg tcaacgcccc gtgcaggggtg 360
 caaggggcag gggtcacgca gccctggggc cccaacacgg ggtgggcat cctgtcggtg 420
 aagccccca t 431

<210> 51800
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-G5

<400> 51800

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ggcgccgtgg cccgtcggat cctcgagaag ctgcgcgccg acgccgagtc caggctgtgc 120
ttcgcgcagg accggtacat cttccacgtc ctccgatccg acgccgccgg catcaccttc 180
ctctgtatgg ccaacgacac cttcggaaga aggatccccct ttctctacct ggaggacatc 240
caaatgaggt tcatgaaaaa ctacggcaga gtcgcccact ctgcgctggc ttacgccatg 300
aacgatgagt tctccagagt gcttcnchnat tcaagncgaa atgggagtnn tcttctccag 360
gccaaaccaa agcgcnnnga cacacttcca acccgtcttc nncgtgggag aaagtcaagc 420
g 421

<210> 51801
<211> 417
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-G6

<400> 51801

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ggcaaggctg acacctccaa gaaggacgag ggagggtcc gggcgggcg ggcgcgcgga 120
aagcgcaaga aggcgcgcgc gagcggcaag cccaagcgcc cgccctccgc cttcttcgtc 180
ttcatgtctg aattcaggca ggagtatcag gcgctgcacc ctggcaacaa gagcgttgcg 240
accgtgagca aggcagcagg ggaaaagtgg cgtgctatgt cagatcaaga gaagcaacca 300
tatgtggacc aagctggaca gaanaggaaa gccagggact ttatgagaaa gactaagggg 360
caaacttttg ataaagaaag ggagagccac aagnnctcaa agaaagggct aagactg 417

<210> 51802
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E9

<400> 51802

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ttgatccaag aaaggatcta gtgcttccgg catggaagga acctaacca ggggccatat 120
ggttaaaact gtgggcaagg ccaaggaaca accgtacaac acttttttat ttcaacggta 180
atcaagggtc agcatacgaa ggaggccgtc cagaagacac gtatagcatg gggattcggc 240
aaaagctagc agctgaattt ggttccacac caaacaagca gggaaggctt gaacggcagc 300
atgcggccga tgtgacagtt acctatctac gaactgaaaa atattatgaa gaattagcac 360
gctctg 366

<210> 51803

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-D3

<400> 51803

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cagtggatgg agtgaaaaag agccgccaga aacagaggaa gcaggctggg gcttcgtaga 120
tggggaagtc tccagccagg gccgggagcg ggggtggcgag tcagtctgca gtcgctcggtc 180
ggacaggtca gtcgggagca cggcgcggtc caagtcgctc cgagagaaaa gcctgtgccg 240
cggaacggac actcggggaa ggcctgggtc cgtgggagct ggtgggtggg acggccgaag 300
ctgctgctac atccacctgc ggagccgcat gctgntcatg ggcag 345

<210> 51804

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D4

<400> 51804

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agaaaagttt aaaactaaaa atatgaacct cataaaaaaa taaaaact 108

<210> 51805
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D5

<400> 51805

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gttcccgacc cagatgtccc gccgctacgg ccggagcttc tctactgcc tcgtcgaccg 120
cacctcctcc ggcgcggggc ccgcgccggg ctcccaccgg tctccaccg tcagcttcgg 180
ggcgggctcc gtcggcgcgt cgtcggcgtc cttcaccctg atggtccgca acccgcgcat 240
ggagacgttc tactacgtgc agctggtggg catcagcgtg ggcagcgcg gcgtcccgag 300
cgtggccgag tcggacc 317

<210> 51806
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-D6

<400> 51806

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cggccctgag ggcggcgcg gccgtgaagg agacgacggg gatcgtgggc cttgaggtgg 120
tgccaaacgc gcgagaggtt ctggtagggc tctacgagcg cacgctcaa gagatcaagg 180
ccgtccccga agacgagggt taccgcaagg ccgttgaatc cttaccgggt caccgcctcc 240
agatctgcca ggaggaggag gactggaagc gcatcgagga ccgaatcgga tgcgggcagg 300
tcgaggagct catcgaggaa ggctcggagg ggaacggagc ctcaaagctt tcatcgctta 360
nnaaatgat 369

<210> 51807
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D7

<400> 51807

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cttgctgata atcgaccagt tccccagcct tgctccttgc actcctccct ccactctgcag 180

cattgcgttc tgattcacct gtcaccaatgc tgtctttctg ctgctgagct tcacgggtcta 240

gctatcgttt tgaggggctat gagacgccct gagatccatc ttgagcacct gcttgggccc 300

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cacgtgtgca caattgtgtc tgagct 386

<210> 51808

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D8

<400> 51808

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ctcttgctgg aatctagatc tcgtcccctg gggggaaaag atcttaaggt gtcccgggtc 120

gacaggtcac cgggggcgtc cccagacgac gtggagtcgc ctaagaatta agagatcaaa 180

tcgaggaaga agtcttgat gaacaactag atcttgcccc cggggagggg tgagatccta 240

gggtcgtctt gggatcgaca tgccacccaa gacggatcta gacgacgtaa agtcgaatag 300

gggtggatgt ggatatgt 318

<210> 51809

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D9

<400> 51809

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aaaaaaagga ctcttaaggg cactttaaaa tttaaaaagg gacaggccca gctaccgttc 120

acaatctata accttactcg actctcaagc tcctaacgtc actattatta acaaattgaa 180

gcataactatt gcctgtgaga aaattcaacg tgtcatacct ggaataaata tctcacatcc 240
acataaatgt tattcatata acatccaaca tgaaaacact atattatccc ataataata 298

<210> 51810
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E1

<400> 51810

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aaggtgctgg tcccgatcgc gaatgggacg gagccgatgg aggcgggcat caccatcgac 180
gtgctccggc ggcggggggc cgatgtcgcc gtcgcttccg tcgagccggg ggcgacgtcc 240
gagctgccta tggggcatca agcttacccg gacgcgctct cgcgacctgc gacagagttc 300
gatctatctc tctaccggga ggggatgcct ggttcttcga cttttggaga gtgcaaaaagt 360
tttggagaaa atggtcaaaa aacatgtaga gaagggcaaa gcttta 406

<210> 51811
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E10

<400> 51811

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatggcaga aacatattaa 180
aaattaacta aacattatta tccttagaaa aatcaaca 218

<210> 51812
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E11

<400> 51812

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cgcgcgccgc ctggcgagca cgcggggctc gtacgctctg acgctccgcg gacggagctc 180

gcgcccgtgc cggcagtcgc gcacctggac ggcgcctgct ggccggccgc ggccggcgctg 240

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<210> 51813

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E12

<400> 51813

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caaccattat tatacacatg gaactgttaa atttaaaca tgaattccca aaccataaat 120

tcaacatcaa ctaatacatt aaatatactt cttatttaaa tccttacaaa gcataatata 180

tccaattcca atatattact taattctaca aattatactt tatatatcaa c 231

<210> 51814

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E2

<400> 51814

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agtgtaagt actcagagtt gttctatggt cgccacttca atgttgtttt tattggcaca 120

acgctctttg ctttacaaca gttatccggc ataaattctg tgttctatct ctcataact 180

gtattcagaa gtgtgggggt gccctctaac cttgcaacat atgcatggga tctaacttat 240

agacatgaca tgcttttagga caagctagta aaagtgtttt ttagagttct ggatggcttt 300

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atctttcagt tggtagccat ttctgttgt 389

<210> 51815
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E3

<400> 51815

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ctccgcgccc gtccctgcca ccggctgccc atattggaag gagctcgagg ctgggcgctg 180
acctgagtta tggaagggat gccgactgca acagtactcg ccaagcatgc ctaagtcgaa 240
gaagctgaga ctgcagctgg aagcgtgga accggctacc tgtcgcaggg gccaggaaag 300
cgtgctccta cacgtgctgc taggggcaga aagggtgcca ctgggaaagg agtgccccct 360
gcacctaccg actagaaga 379

<210> 51816
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E4

<400> 51816

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atgtccgaga ccatggacaa tttcgagcgc cagttcgtca acatggaggt ccaggccgag 180
ttcatggagg gcgcatggc cggtccacc tcctctcca cgccggagac cgaggtcaac 240
agcctcatgc agcaggtcgc ggacgactac gggctcgagg tctcgtcgtc gcgcagcgcg 300
ccacgccatc ctgccgcaa gggataagga gaaagtcgac gaggatgacc tttctcgccg 360
cctcgccgag ctttaaggccc gcggctg 387

<210> 51817
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-E5

<400> 51817

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gattatcacc cttgttcctc caacaaccgt cagccctatt acagcagtac cttggtccat 120
tggggccaac atcagcacac actcacactg gctgcaacct gtgatactct acacatagtc 180
ttcatcccac tggctgatga actctgtgta ttgcacacat acattcaccg ctgtgctgct 240
acccagcatt cttcattcaa ccactagcag ncattggaac tctgctgctt atttacagca 300
gcaacaacta ctaccattca gccagctagc tgatgtgagc cctgctgcct ttcttgaca 359

<210> 51818
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E6

<400> 51818

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gctcctaatt tcacttctat gaactgtact aatttgcac gaagaaagtt tgggtcccaa 120
caactcgtga actcgttttc ttattattgg gctgatggac aaggcaacgt gaaatttttc 180
atggtacctg ggaacagaac ttagcctaca aactgcagaa ccattctcat ttcatcttgt 240
agtcttgtct tgctaataat ggactttgtg ggctgtctgt tccctgtgta attcatttgg 300
ccatgacagt tcttgatcaa tggttggatt tattcatagg aatggtgttc aaaaa 355

<210> 51819
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-E7

<400> 51819

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 cgtcaccacc gaaccaagtc ccgcgtccct ggtcccgcgc gcggggccca cgccaggcgg 120
 tccctccgtc tctcatcgac agactgcgcg ccggttcgcg attatcagct tccgccctac 180
 tcggaaggag accggaccct ctcagacgcg ttccgggctt gcagcctgtc cgctaccgcg 240
 cgcgatgcag cccgtccggg ggagcctgag attgagtgcg caggggaagg ggtgttggtt 300
 cgtggaggcc gaagccagct gtcacctcg 329

<210> 51820

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-E8

<400> 51820

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 tgggtccgttg cgggctcggc gtgtgggctg atcagtggag ctgggagggg gaagaggcgc 120
 tgggtgagagc ggaggagatc acagcgctgg tgatggaggc tatggaagat gacgcgatgg 180
 cagtgaagac ggcgaatgtc cgcgaggctg cgtcgagagc cgttgtggac ggccggcacga 240
 gctaccgaag cctggcgggc ttctgtgcgc gttgcaccgc atgaagttat ataaaaatta 300
 cttatataac ttaacttcaa ccggggctct tatataaact ttttaaaaaa tatgccctnn 360
 attccagaac ata 373

<210> 51821

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D11

<400> 51821

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 cagcccgcg cggccaagac gacggaccgc ccggccgcgc cgtcgaggc gtgctgcgac 120
 gcgctggcgg gggcggaact caagtgcctg tgcggctaca agaactcgcc gtggatgggc 180
 gtctacaaca tcgaccccaa gcgcgccatg gagcttccgg ccaagtgcgg cctcgccacg 240

ccgcccgaact gctagcagtg tgctagccaa gccaaagccaa gcaggaaggc ccccggaatt 300
gctagctgta cgtgtctgtg tgtgcatctg cagcaggggtg caggcagggg cccgtacgta 360
cgtgtctctt tctctctctc atcttgtcac cgtacctatc tagagtgtgt gtgttcgtac 420
taattaaaat 430

<210> 51822
<211> 327
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-B3

<400> 51822

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gtcctttcca gtcgctctg taatctgcat cagcctcgcc cgccgcgcgc gccgccatgg 120
ggaggggaaa gttcaagggg aagcccacag gccgccgcaa cttctccaca cccgaggaga 180
tcgctgctgg tacttcaggt cggccacgca cctttaagaa gaaggaggaa gaggaagatg 240
aggaagaggt agaaagagaa gagtctgagg aagaatctga agaggattct gatgaaaaga 300
ctaaacataa aggcaactgag ggtatta 327

<210> 51823
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B4

<400> 51823

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gccaccggcc ttcacgggca acctgaagaa agcacttgca ggtctgagaa gaatcaattt 120
agatgggctt cgatggcgcg tatttgatgc taagggtcag gtgctgggac gattggcttc 180
ccaaatagcc gttgtgcttc aaggcaagga taaaccgacc tatgcgccac atgtggaaaa 240
tggagacatg tgcattgtac ttaatgcaca ggatatcagt gttacaggaa ggaaaatgac 300
agataagatt tactactggc atacaggggg gtattggttt gggccatttt tg 352

<210> 51824
 <211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-B5

 <400> 51824

 gccgcaccgc gtcaggggtgc tcgtcagcgt ctgcctcgcc ttctccatgg ccgggttcgt 60
 cgccccctg agcgtcatct tcgttgtgat caggacgaag agtgccgagt tcatgccctt 120
 caccctctcc ttcttctca cctcagcgc cgtcgctgg ttcttgtacg gcctcttcac 180
 caaggacccc tacgtcacgc tcccgaaagt gggcggttc ttcttcgggt gcatccagat 240
 ggtgctctac tgctgtacc ggaagcgcaa gccggcgctc gtggtcgctc tgccgacgac 300
 gacggccgcc gcagccgtgg 320

<210> 51825
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-B8

 <400> 51825

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 ggggtacacat aaataacggc acgagatcta ttatataata atacaatata tacaattcat 120
 tgatacgggt tagataatgt attgactgac aaaacttttg tcgacctgaa ctctataaca 180
 acgagcagat cgtcaactcc atagctttc 209

<210> 51826
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-C1

 <400> 51826

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 tcaactgaaa caatttgtga ttgatggtaa caaagttgtg ctcaagtgtc ccaatgctga 120

tacaaaggtt gatgatgctg aatttgaaga aaatgaagta tatgcaatcg atattgtcac 180
cagcactggg gaggggaagc ccaagttatt ggatgagaaa cagaccacca tctacaaaag 240
ggccgtagac aagaatatac ttgaagataa agcgtaaggt attttaggag acaccaattc 300
aatatgcctt tacctgctag ggcattagaa gagaagcgtg cgcgtttagg cttgggtggaa 360
tgcatgaacc atgaactatt gcagccgtaa cctgtactt 400

<210> 51827
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C12

<400> 51827

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tggaatcaa caatcaaggg gtcggtgtta ttgatgttaa gcctacaaac atggaatata 120
tcaactgaggt gataacatct gctgaattcc atcctactca ttgcaatata ttggcgata 180
gtatctctaa tggctccatt cgacttggtg atctgcggca atcagccctt tgcgacaata 240
attcccaaata ctttgagcat catgatgccc catgttcaag atcatttttc actgagatta 300
tagcttcaat ttctgacata aaattttcga aagatggtag gcatattctc agtcgtgact 360
acatgactct gaagctttgg gatgttaaga tgaattctgg tctgttgca acat 414

<210> 51828
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-C2

<400> 51828

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gttccccatc aagctttttg acgatgatat ccgacggctc gagcatgtgg actcagctcg 120
tagaactggg agacatgctg ttgcctccat cttggatcct tcaaagacga gggacatcga 180
ttacctgccg ttcttctact ccagagtgtt cacgttgtcc tggcaattct atggggataa 240
tgtcggggaa gtggtccact ttggagactt cacaagcagc agtccgaggt tcggtgcata 300

ttgggtcaac aaagggcgga tcgcgngnng ttgccccgtt tcttggaagg gggcggaaaag 360
tcgggaagaa ggtaccgaag ggcccatatc cгнаатcgct gtnntcgggc gggaa 415

<210> 51829
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-008-Q1-K1-C3

<400> 51829

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tgagctcagt gaggatgaca agctgacagt cgcccgtaga agaaagattc agcgtttcct 120
gagccagcct ttccatgtcg ctgaagtttt cacgggtgct ccaggaaagt atgtggagct 180
gaaggaaaagc gtgaagagtt tccagggtgt tttggatggg aagtatgatg acctccctga 240
gcagtcattc tacatgggtg gtggcattga ggaagtcatt gctaaggctg agaaaattgc 300
caaggagtct gcttcataag gaggggcttc tttggctttg ggttcaacct ttgtnnacaa 360
gttcctaaatt tttggaatnn tttaaagcgt ttaatttatg cttttttccc aagttaggc 419

<210> 51830
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C4

<400> 51830

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gctcgcgttg ccaggcatgg ggttggccta gttgtgcccg ttgagcacta gcagcctcct 120
tgaaacctcc agatctgtgc ctccaaggcc cccgttcctc ggcaacaagc cgtccagatg 180
gacaccgccg cgccctgca actgaaagcc tgcgccggcg acgccgcgga gaagctgctg 240
ctcgcgcgtcg cagccgaggg tcctatctgt ggtgtgccag acttcaagat gaggggaaaag 300
aagagtgatg agctcgaacc tgtc 324

<210> 51831

<211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-C5

 <400> 51831

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 gggaaaaaaaa agagcagaaa aagtagagta gactacgaca gcgtccggcg aggaggcgga 120
 ggcgaaagatg aggaagaagc tcggcacccg gttccccgcg gctcgaatca aaaagataat 180
 gcaagcagat gaggatgttg gaaagattgc actagcagtt cctgttttag ttctgaggtc 240
 tcttgaattg tttttacaag atttaattga ccgtacttat gaaattactc ttcaaagtgg 300
 agcaaagaca ctgaattcct tccacacttt ggaaagccaa tggttggtgaa ggaaggtacc 360
 cagttctttt tgaatttcct taaacctgaa agtttgttca agcaaagggt accatgattc 420
 ttgggtgg 428

<210> 51832
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-C6

 <400> 51832

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 gcagccacca cgcaaggcag ctgcaattga gaaccactt ccagtcagcc ttgcagatct 120
 gtacaagggt gtcacgaaaa agatgaaaat ctcaagagag gctatagatg ccagcgggag 180
 aatctcaaac gcagaggata ttctgacaat agaagtaagg cctggttgga agaagggaac 240
 aaagattaca tttcccgaca aggggaatga agctccaaac atgaaagctg ctgatattgt 300
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 aatcttggtg gtt 373

<210> 51833
 <211> 218
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C7

<400> 51833

accacgcac cgcgaatatct tcttttccact ctttggcgct catgattcca ccaggatgcg 60
tcagcctcca cacatggcag gtgcaattga aaaccactt acagacagcc ttacacatct 120
gcacaactct atcactaaca agatcaaaat ctcaacatag cttatatatc ccagctcatg 180
taatctcaaa cacaacccat attctgacaa tctaacta 218

<210> 51834

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-C8

<400> 51834

gcccatttga gcctccgaag ccaaagacaa agcataaggt tgacattgac actgtcgagg 60
gattccagac actgcgtagag caagagcaga aatactttga tgaaatgggt cagaagtgc 120
aggatgctgg tgcaaccctg gttatttgcc agtgggggtt tgatgatgaa gccaatcatt 180
tattgatgca tagaaatctg ccagcagtga gatgggttgg tgggtgttgaa ttggaactga 240
ttgccattgc tacaggaagg cggattgttc cgagattcca agagttgagt cctgaaaagc 300
ttggaaaggc tggattaagt ca 322

<210> 51835

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-C9

<400> 51835

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ccctagatct gacccgagac gccgcgtctt cgctgagatg gcgattactg tgaggcggtc 120
gacgatggtg cgcggggcgc gggagacgcc gcggcagcgg ctgtggaact ccaacctcga 180
cctcgtggtg ccgcgcttcc acacgccag tgtctacttc taccgcgcgc acggccccgt 240
gccgatgctg gaggggttct tcgacggcga gcggatgcgg cgcgcgctgg cagaggcgct 300

cgtgccgttc tatccaatgg cgggccgnct cgcgcgggac gaggacggta gggtcgagat 360
 cgactgcaat ggcgagggag tgctcttcgt cgaggccgac gcgcccgatg cctctgtcga 420
 tgactaccgt gacttcgcgc ccaccat 447

<210> 51836
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D1

<400> 51836

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 cgtgccgcgc gccattacct gggcatggcc gacctatcca ccggtcactc acacggcccc 120
 ctacgggact gctggcggcg cagcctagcg gggcggcccc agggaggcgc tacttctgcg 180
 gcgggaagga gcatcgggcg tcgcgcgcgg ggcggcctgg ccggctgaaa gcgcggcgcc 240
 gtgcgcgccc agagtcccgga cggcgaggct cgcggtcgcg gcggacaggc cgcggaggct 300
 ggtgctgctg ggcgccgata cg 322

<210> 51837
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-D10

<400> 51837

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 cagataaaat taaaattaaa accaaccaac ataaaaaata ctactaaaa taataacaat 120
 ctctctaatt ccctcctact cactgccata cattcccgta tattcactct cacggcttca 180
 ttcaactcgt ctatctccaa cttattacc tttacaacaa taattcccaa atctctaaac 240
 cccattatgc cccatgctca atatcatttc tcactcacct tatatctcca atttccaaca 300
 taccattttc ccccgatcta atacatat 328

<210> 51838
 <211> 323

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-B2

 <400> 51838

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 gaacaagttg aaggagaaga ctgatgatga tattcccatg ccagcctatt tcaggttcct 180
 cgcgctgctc gcattcaaga tattttctgc tgagcaggta gatgttgctg ttctcgaggt 240
 tggcctagga gggaagtttg atgcaactaa tgtggttaaa gcacctgtag tttgtggcat 300
 atcttccctt ggatatgac ata 323

<210> 51839
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-H5

 <400> 51839

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 gtttgTTTTg tggatcgcaa gtttctcttc tgctactgtt gctgctacct ttgctggtgt 120
 tattgctagg gtcgaatact taagttaact atgcgctgac agtctggact agcagtgtta 180
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 tgtgttacag tgcgtgt 257

<210> 51840
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-H6

 <400> 51840

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 ctggccagtg ccggccgagg ctagggttcc ggggatcgcg ggcgcgggct cgggctcgac 120
 tttcgtagcc tagccgccgc cgccggccgc gcgggggaac cggatgctat gctgctgagc 180

tgcgggtcgc tctcctcctg ggtgcgccgc ttcgtcgcct gcgttggagg ttgttttggt 240
 tgtgccccagc ctactccaat aatagctggt gacaagccta caaaagggtt aagaattcaa 300
 ggacgctcag taaaaaggcg caacgtatca gacgactttt ggagctcgag cccacacgaa 360
 atggagaata gtgccttgca aatcccgcac agtatgtcct caatcagcac agcagcacag 420
 cctaattgatc ag 432

<210> 51841
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H7

<400> 51841

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 cgcccgggtc cccgcggctc gaatcaaaaa gataatgcaa gcagatgagg atgttgga 120
 gattgcacta gcagttcctg ttttagtttc gaggtctctt gaattgtttt tacaagattt 180
 aattgaccgt acttatgaaa ttactcttca aagtggagca aagacactga attccttcca 240
 cctgaagcaa tgtgtgaaga ggtacagttc ttttgatttc ctaactgaag ttgtcagcaa 300
 ggtaccagat cttggtggcg ctgattcctg tggagatgaa agaggattac ctagaagaag 360
 aaagtcaaat ggcagtgacc cagagaatga tgaatcaaga tctagtaaaa tggccataag 420
 aaatgc 426

<210> 51842
 <211> 286
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H8

<400> 51842

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 ctgcacaggc agctcttata tcgatgacaa gtttgatctc ccctttacta ctcttgccaa 180
 gaatgctgcc ttacctcaag aacaagaatc cactgatccg agcaaaagca tcaactgtgtt 240

tcattctaaag tgtaccactc cttgatgtgc tgggaatcaa agaata

286

<210> 51843
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H9

<400> 51843

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ctcgtggtca tggacacctt tgtgttcggt aggagggggt cggggtggaa cggtgaaaag 120
gaagctgtag atagaaaagg caggcgtctc atgctcttgt tgtctagtct aatttttaat 180
tttactcggc ttattaatca cgggtactgac tagctgcctc aaaacctgct cctcccagca 240
gtaccttgag ctgtatcccc gagattcctt aaccagcgcg aaccaatata ctgttgctg 300
ttctctgca aatgagatgt tctgcaccta tgtttgtaat gttgtatttc tgggttttta 360
agctatccaa cttggagata caaccggtga ggaagcaaca a 401

<210> 51844
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A1

<400> 51844

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gccaggggta ctagcattaa agggccgtag accgctagga cgtacacgtg gccgtctcgc 120
acaatacgag tacaatgcga tgcctggact acgagaggaa cctgctcacg taaaccgagg 180
tggacgccat cggactcctc tagatgtagt cctacatctt caagcacacg aaccgtgaat 240
atgcgactgt gactgtgttt t 261

<210> 51845
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A10

<400> 51845

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tccgcagcct cctcctgaga ggatcacctt cactctocca ctgatcaact cagcatccaa 180

catagcaata gtgtccactg gtgatgacaa agcaaaggct gttcacatag cagtttctga 240

catggccgaa ggtcttgatg ctctacatc actgcttgc agaatgggcc agccaacgga 300

cgggaagctg gtatggtttc tggacaaggc ggcgccatca ttccttgact ccaagaacga 360

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tgaagcgaat gaacggaggt gtgtgt 446

<210> 51846

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A11

<400> 51846

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agggcgggcg cggcgccgga gggctcacgc gggggagctt cccaaggga ttctgtcttcg 180

gcaccgcctc ctccgcttac cagtacgagg gagcggtgaa ggaggacggc agagggaaaa 240

ccatctggga caagttcgcg cacacgtttg ggaaggttgc agacctgagt aacgccgatg 300

tcgcggtcga tcagtaccac cggttcgagg aggatataca gctcatggcg gacatgggga 360

tggacgcgta ccgcttttcg attgcctggt cgaggattct gcccaatggt accggccaag 420

tcaaccaggc cggcgtcgac cactacaaca 450

<210> 51847

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-008-Q1-K1-A3

<400> 51847

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acgatgccac caagctgcag gaacttgacg atatgaagcg ccggctcaag gaaatggagg 180

aggaggccgn cgcgctccgc gagatgcagg ccaaggttgc caaggagatg caaggtgtag 240

atcccaatgc aaccacatct gaaaacaaag aggagatgga ttctcgggtca gtattcattg 300

gaaatgttga ctatgcgttg cactccagaa aggaaaaagt gcaagcaagc acttttccaaa 360

ttcttgtggg aacctggtca acaggagtta ccaaatcnct gactggggac aagtttgggg 420

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<210> 51848

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 51848

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acaccncagg ctatcatata tgttgtgatt caagcatata atggctgtac acaagagaat 180

tcatgatctt gagaggaact aaagggcagt gtcttggatg caatacagac ttcaggcctc 240

gagatgctgc aacaatatta gactccaaat aaaccgcaat gggcgatttt caaaacatct 300

gcaataaagg gagaggggct cttcgaaagt ttggactggc tcagtaacac gctncaaadc 360

tggaagcagc 370

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A5

<400> 51849

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acaggccgga ccgccgcaa cggggacgac ctgaacgtgc tggcttcctg cgaaggcctc 180
ctcatcctcc tcgccaacgg cggcctccag atctgcaacc cggcgacccg ccagcgcgcg 240
ccactcactc ttctccacgg cgcctattgc atctccgcgc tttatcctca catcccgctc 300
aggtcgtacc gtgtgctctg ctggct 326

<210> 51850
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A6

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gtgcccggta atggctgttg gattaatgta ggtttgattc aattaatatt taataatagt 120
caatgctaag agtctacttt 140

<210> 51851
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A7

<400> 51851
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tcgttatgtg acaaaccogt gactaggcaa agacgtatca gccgctcgag tgtgtgagtg 180
cgtcatgaca accgattgac acacgtataa gtgccaagta tccagtgaca caggacgggc 240
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cgggccgcac gcctatgctg acatacaac 329

<210> 51852
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A9

<400> 51852

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gccgaaccgc cccgaccctc ctcccccttc gcgctatggc ccagactgtt gtgctcaagg 120
ttggcatgtc ctgtgagggc tgtgttggag ctgtcaagcg ggtcctcggc aagatggaag 180
gcgtcgagtc ctacgacgta gacatcatgg aacagaaggt caccgtgaag ggcaatgtga 240
cacctgacgc cgtcctgcaa actgtttcca agactggcaa gaagacttcg ttctgggagg 300
ctgaagccgt gacaagtga tccgccacac ctgccggtgc caccgctga caggttcgat 360
gatctggaag tgcccggcaa ggcggcaaag aaaaaaatg tgaatgtatt tagcttggat 420
ctgttacaaa taattgcaaa ctgctagctc 450

<210> 51853

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B1

<400> 51853

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acaaagatga acggtctctc atttaagctg aacctctacc tgtattgata tccctggatt 120
ttttctgagc caccacctgt tgtgatttgt gaacgttgta agaatagggt tctttgcttg 180
ggttcgcttg ttgctgtcga aaatatgtaa cgaatgttat taataaagaa tttcttgtat 240
gactttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaat 300
ataaaggaaa caaacattaa aa 322

<210> 51854

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-B11

<400> 51854

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gactattgaa ctgaccgtag cgctcctggt atgtggatga agtggaatgc tgatatgggg 120
aacggacttc atcacctgca agtgcaaatt gatatgcatg gtatgagcta gctcaaagtg 180
gatgggagtg atggtacatt ctacatgtgc aatgaaccct gttgaaaacg acagcattgt 240
tgctgagatg ctgcggagat attacgactc tgttgaacta tttgatgtca ctaatgaact 300
aactgaatta gtccgtcgtc ctggac 326

<210> 51855
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H4

<400> 51855
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ctgtgaagct gcagaggcag ctcttatatc gatgacaagt tggatctccc ctttactact 180
cttgccaaga atgctgcctt acctcaagaa caagaatcca cggatccgag caaaagcatc 240
agtgtgtttc agcaagagtg taccacgcct tgatgtggtg ggaatcaaag aatatggtat 300
ggataagctc atccaaattg cggcaacca acttagcgac cagcttcttg aatcaaggga 360
ggctgctcgc aacctggcac tggaactgca agcattctat gagaagtc 408

<210> 51856
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G11

<400> 51856
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ttttttttat attttaattt tttttttatt attaatataa ttttaattta aattttaaaa 120
aaaaataaaa aataaacaat aacttcatta aactatataa tataataaaa aacaaaataa 180
aaataaacia aaataaaaat attaaaaaaa aaaactaaat caaaaaccat aatataatac 240
aacacattac cataaaaaaa taacattaca tt 272

<210> 51857
<211> 370
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-G12

<400> 51857

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gatggagagt ccagccgtcg atgatgatgg ggaatgcttc tctcctatct tattgaatgc 180
aacttctttg aatgttgaag tttattacaa caaagcagtc aactacacac tgatgggtcac 240
ttttatctct ttccttcaag ttttgctgct gattagacaa atggagcata acaacacaca 300
atctggagct gctaagggtt ctattntaat gattggccaa caagctatca tggatgcata 360
tctctgtcta 370

<210> 51858
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-G2

<400> 51858

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gcgcgcgctc ctctggcct acctccccgc cgacacctct cccgcctcct ggaccgttac 120
ggcttcgtgg ccccggaact cctcaccg gccccgcgag aacctcacag cgacaccgcc 180
gactccgccg ccgctgcgaa gaagcgccgc gcgaagaagc cgccctaccg cctccgtcc 240
tcgctggacc gtggcggtcg cccgcccgcg cactccgacc tccccctcga ctccgcttc 300
agctacaccg agagcacccc ggctncaag cccatcgggc tgcgcgagcc caggctactcc 360
ccgttcgggc ccgggcgggt cgaccggccc tggacggggc tctgcgcgcg cgccgtcgac 420
gctaccctg 429

<210> 51859
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-G3

<400> 51859

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gccccggcct gcggcgccac cgctccggcc ggcgctccctc cgcgcgcgcg caatcgctt 180
cgccccctcc ccgcgcgggg tccgcgtctc cgtcgccggg cgggccagga tccccctcgt 240
cattgcgatg gcttctgcca aggaaggaaa tgggtgcaccg accaagaaaa cctcgcttca 300
cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc gacctgtcac 360
cgacttgctg ccccttatcg ccagcgggtgt tcgtggagtc accagcaacc ctgcaattnt 420
cca 423
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<210> 51860
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G4

<400> 51860

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aagaggagga gggggggacg atctcattca tcggaccggc gtgcctgtgt cgtctgctgt 120
tttcgttatt ttttctttac tctttttttt tcttctcctt ttgcttggtc aattcaatca 180
gtataataag atttctgatt tgggggcggc tcgccatggg attcggaatg ggggaataata 240
acaacggggc gagctcctcg tcgtcgaggc tggaccggc ggccgcgctg ctgcgcgcgc 300
acggcagcag cgggggcccgc gaggggtggtg gcctgtcgtc gcagcccaag acgttcgcca 360
acgtcttcat cgcggtgggtc cgcgcgggcg tgctggggc 399
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<210> 51861
 <211> 396
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G5

<400> 51861

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ccaacgctct tgtcaatatg atcagcaacc ctgtcaactc cactgtcccc attgcggcgg 180
agggttttcaa gaaggctggt acttatgatg agaagaagct gtttggtgtg actactcttg 240
atgttggttcg tgctaaaact ttttatgctg gaaaagcggg tgtgccagtt actgggggtga 300
atgttcctgt tgtcggaggc catgcgggta ttactattct gccactcttc tcgcaggcca 360
ctcctgcaag caattcattg tcccaagaag acattg 396

<210> 51862

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G6

<400> 51862

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gagacaacga cgatggcgtc gtctgcctgc ttgctccaag cttccacggc cttcgctcca 120
cgcttctccc tcccgctccg accccagccc ccgctacacc tgcgtctccg cggctcccc 180
aaccgtcgcc gtggcatctc actcactgct tcctccgccg cgtccccgga agtcgagaaa 240
gagtcctcgc cctcgtcctc gccgcaggaa tctctgtctc gtaggctgtc gccgacagt 300
tgaagggtgct caagggtggca gccaaagacga ggaaagtacc tgccccggaa attctctcgg 360
cgctgtccaa gatcaagaag gcaaaactcg acacgtcggc attctttgag accactcgtg 420
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<210> 51863

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G7

<400> 51863

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tggccgtcct agactcctag atccgtcagc ttaacgagct ccattccttc gaggccagcc 120
atcccgggtgt ctcagcagcg ggggcggcgg cgtcgagctc ttgctttctg tgggaggacg 180
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tgagctcgcc tctgccgga acggtccttt cctgtccgat agcgtcttcc agtcgagcgc 300
cggatctaca gggaggagct tgctgcaggc caagaatagt tgccctgtga actttgagtt 360
ccaaaactac acaatcatca caagcaagtg caaaggaccg aagtttccag ccagccaatg 420
ctgtg 425

<210> 51864

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-G9

<400> 51864

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gcggcctcaa ggggaagctt ggcgtcgagg atgccccga gctgcagctg aatcgcaccc 120
gcatcacctt ctcaccaag aacgtcaaga acctggagaa agtttgtgcg gatttggtaa 180
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agttccgcat ccataagagg gtgatcgacc tgatcagctc ccagacgtg gtgaagcaga 360
tcacctctat caccattgag cggggtgttg aggtcgaggt gaccgttgca gacgtgtaat 420
gacgatc 427

<210> 51865

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H1

<400> 51865

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ggacaacaac aaaagtctcc tatagaagtt gtttctgaag tgctatgggg ctccagttta 180
tttctacaga atgttggtct gcaagataac tccaagaaaa gctccacaac aactgttttt 240
gctaaggttc aagaacttca taatcaattg gagtctgaga ggctagaaaa agatgggctt 300
caagaagaag tagaaacctt aaaggctcag gcacaggcct caaaggagac catggacaat 360
atgaagagat cgatggaaga aaataacagt cttcttcgtc aactgttgag cttcaatcga 420
ag 422

<210> 51866
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H10

<400> 51866

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ccgcgccgta ctacgccccaa ggctaccaga tcgtcaagg ttatatctct ggtgttgaag 300
gaaggcctgt tagaatccgt cctcttccat gttgtggcct tggcatgggg tgggttctgg 360
ttataattgg 370

<210> 51867
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H11

<400> 51867

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ggtgctgtgg acggagagca aggacgtggg caagggcttc cgctgcatcc gcatggtcaa 180
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 cctggcgcc 429

<210> 51868
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-H2

<400> 51868
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 ttatcaatat catcccttga tgagtgtacc gtccgtgtgc gtaccatggg cctaattacc 360
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<210> 51869
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-H3

<400> 51869
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ggtcacgtc 429

<210> 51870
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F9

<400> 51870

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cccgtgccag gtttgaggag ctcaacatgg acctgttcag gaagtgcacg gagcctgttg 180
agaagtgcct gagggatgcc aagatggaca agagcaccgt ccatgacggt gtacttggtg 240
gtggctccac taggatcccc aggggtgcagc aactgtcca ggacttcttc aacggcaagg 300
agctgtgcaa gaacatcaac ccgatgagg ctgtcgccta tgggtgc 346

<210> 51871
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-E5

<400> 51871

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agttttctgg ttcgatggct ttggtaacga tgagtcagcc accgagcagg ctctcttgca 180
gaagttcttc gcgagtattg ccatcaagat tttgtcggaa cagctgtccg gcctgcaggt 240
catcctgatc atgaaaaaca cgagatacat tcagttgcag gtggaaagat tggcgcgga 300
gtgcttcttt ttcctcagcg aatcgtttct gtctgatgaa gcaaacttag gatggttctc 360

agatacctnc acgcacacaa gaaggatgca agtggcagca cgggtgacct acgtcttc 418

<210> 51872
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E6

<400> 51872

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cgggccgttt taaagaatcc aactttactt acccttgctt ccaacgtaat accttttcta 180
tagggccact taatttaatt tcattgcccc cgtttttaa cgcgtgaaac tgtaaaaacc 240
ctgcctttcc caaacttaat tcctttgaaa aaaatcccct tttcccgaat tggcttaatc 300
ccaaaaaggc cccaaccaat cgcctttcca aaaagttccc caccctaaat gccaaatgga 360
accccc 366

<210> 51873
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E7

<400> 51873

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tcattattcc acaatgctca ctagctccaa gttccattat tacacagttc ctcccaccag 180
ctacttcaat gggcttcgaa cacacagctg tgcaagccta taggctacaa caagcaactt 240
cggcgagcgt attacaacaa ccaatttccc agtcgcaaca acaatgcttg gcacatctaa 300
caatacaaac catctcatcg caacagcaac aacaattact accagcactg agccacctag 360
ccatggtgaa ccctgccagc tacttgcaac agcatgtgct tgcacaaac ccacttgcta 420
tggcaaacgt ag 432

<210> 51874

<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E9

<400> 51874

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ggtgatcacg aggcgcgcgg tgatgacttc gagaagaagg cggagaagaa gctctcgggc 180
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tgtcatttga agggagatag caagcatgag gctgcctcag cgtacgtcga ggcagcaaatt 360
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ttcttgga 428

<210> 51875
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F1

<400> 51875

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gtggtcttat agatcatctt ggaattgagc ctttgatgat ggaagctctt gagaagattg 180
agaaggacat taagaaacca cttttgagga gcgacaagaa gaacatggcc accctcttgg 240
cagagtttga caagattaac aaaaagcttg gctttcggaa ggaggatctt cccaagatcg 300
aggaagagct tgaattggaa attgccaaaa gtgagctgac tgaacttaag aaggaatgcg 360
ttgaagcaat ggagactcaa ctcaagaggg aggagtttca agatgaggag atgcctgatg 420
tcaggaaat 429

<210> 51876
<211> 413
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F10

<400> 51876

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attcctaggc tgtaccgccc atctttctct acctgtttgt aagatatgac tttagggggt 120

tcggccttta ttatccctag taggcccatt ggaataggaa cttttttggc attgcacatt 180

agaattttca agtggtggca tggctgttta gttctatggt ggtgactcgt gacctgtata 240

atataattta gacaatggaa tatacagcat ttgtggtaca gccatgtgac aaaaaaaaaa 300

acaaaataat aacataaaac aaactaaaag ctaaaaaaaaa aaagagatac tatacatgcc 360

aatttattaa aaaaattcat tcttacacaa aaaaaaaggg gcggcctctt ttg 413

<210> 51877

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-F11

<400> 51877

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ctagcctacc atggctgata accaccgggg tgcgacggga ggtggcgggg gctacggcga 120

cctccagcgc gggggcgggc tgcacggcga ggcgcagcag cagcagaagc agggcgccat 180

gatgacggcg ctcaaggccg cgacggccgc gaccttcggc gggtcgatgc tgggtgctgtc 240

ggggtgatc ctggccggca ccgtgatcgc gctcacggtg gccacccccg tgctggtgat 300

cttcagcccc gtgctggtgc cggccgncat cgcgctggcg ctcatggcgg ccgggttcgt 360

cacctccggc ggcttcggcg tcgctgcgct gtccgtgttc tcttgatgt a 411

<210> 51878

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F2

<400> 51878

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 tggctctctg tggtagaat acatatacaa gctagacaaa gttacataca acaagtacca 120
 tccttacacc tcatggatcc ctataactgt ttatatctgc ctgcgcaatt gctcccagca 180
 gttgaggagt gcctctttgg tccttttcgc atggcttgac aagattacac tagagactta 240
 tatctctcag atccatattt ggcttaggtc tagcatgcca aatggacagc caaatggct 300
 tctttgtttc ataccagaat atcctatgct taacttcatg cttactacgg cgatctatct 360
 tcttctatca taccgtgtgt ttgagatcac gaatgtcttg aagtc 405

<210> 51879
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F3

<400> 51879

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 gctacaaatt ggactgaaga actatgaccc tcaaaaggac aagcgcttca gcggttctgt 120
 taagctgcct cacatccctc gccctaagat gaagggttgc atgcttggtg atgctcagca 180
 tgttgaggag gcagagagaa taggtataga caatatggat gtggaagccc tcaagaagat 240
 gaacaaaaac aagaagctag tgaagaagct ggcaaagaag taccatgctt tccttgcatc 300
 tgaggctatc attaagcaaa ttctcgtct tcttggtcct ggtcttaaca aggcaggaaa 360
 attccctacc ttggtgacac accaggaatc ccttgagtcc aaggttaatg agacaaaggc 420
 tacagttaag 430

<210> 51880
 <211> 182
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F4

<400> 51880

gggtatcgga agtgccatct cattgcccatt tggctcatgg aatgggtgga tgggactgac 60
 aaacatgttc tgggttcaatg atgaatactg gaatcgacac ggaaaaatat actgtgacat 120

tgcgacagtg caacacctaa atacaaagac ttggaaacaa acaacttget ttgttctgtt 180

ct 182

<210> 51881

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-F5

<400> 51881

cgaaaaaaaa aaaaaaaaca aacaaaatta tttaaaaaaaaa aaaaataaaa aaaaaaaacg 60

aagaattaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaaaa 120

aaggccgccc cttctaaagg atcaaacta actaaccctt cttccaatg aataactttt 180

actaaaatct ccctaaatt aaattcactc cccttttttt aaaaacttct tacctggaaa 240

aaccttggct ttaccaaact aaaaccctt caaaaaaatc cccctttaac catctgcca 300

aataacaaaa agcccccaac caatccctt tccaaaaaat tccccacctt aaatgccaaa 360

tggaaccccc c 371

<210> 51882

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-F6

<400> 51882

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gagaggctac attcttgacc aagttactgc tgcaaaagaa gaattgaggg caaacggaa 120

aaaggagctg aagaaagaca gtgcgtccaa gataaaatct cttgtagatg agggaaaata 180

tgaagagcag tttgaacgat cggatggatt tcagcagcaa ttaataatta aagtacgtga 240

aattttgacc gacaaagaat ggcgtangag aaaaatgcaa atgaggatat cagaggaaga 300

aggaagactt aagaaggatg aggaggaaac aaaagagatg tggaagagga agagagagca 360

tgaagagaag tgggaggaga ccagagacaa gcgggtctnc agctggaggg atttcatga 419

<210> 51883
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-F7

 <400> 51883

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 ctaccctctg ggaggcttta catacaaacg cggccatccc atctcatccc ttttctaaac 120
 tctccacaaa cttcaattaa cttaccatca tcattcaccc ccatcactat caaaacactt 180
 tccttaccaa cattaatctc catgtactac atacaccata ttttctaccg cctttttatc 240
 aaaaacccca ataccaatta ccctttcaaa caaatccaca acctaaatgt ccataaaaac 300
 ctcctctctt ccaacccttt aaacactttt aactctaata tcttact 347

<210> 51884
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-F8

 <400> 51884

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 gcaccagtga atgaattgca acctgtgcaa attgagtgtc tgcttgaggt gtccgtaagc 120
 acagctggaa ctgcagctga gaacattcag caagtccagc aaagttcgaa agatattcaa 180
 agcaagtccc agggcgcttc aacaaggagc tgtacaaagg ttcataagca aggagttgag 240
 cttggccggt ccgtggacct ctctaaattc accgactacg gtgagctcaa agcgggaacta 300
 gacaagatgt ttgagttcga gggcgaattg gtatctgcta accggaactg gcagatcggt 360
 tataccgaca acgaaggatga tatgatgctt gtcggagatg acccgtggga ggagttctgc 420
 aacatagtgc 430

<210> 51885
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E4

<400> 51885

gcccaccacc gtcgccagcc ctgctctctg ctctcactg aaggggacag gagcggcggg 60
gagaggagga tcgacgccct ggactaccgc accggcgagc ggcgccccat cgcgcggaca 120
acaggccgga ccgccgcaa cggggacgac ctgaacgtgc tggcttcttg cgaaggcctc 180
ctcatcctcc tcgccaacgg cggcctccag atctgcaacc cggcgacccg ccagcgcgcg 240
ccactcactc ttctccaagg cgcctattgc atctccgcgc tttatctctca catcccgtcc 300
aggtcgtacc gtgtgctctg ctgcttcgag agagccgagg acggccaacgc cgtgtaccac 360
gtgcacaccg tcgggtcgcg cgagctcagg tgcgtcggag aaccttccgc gccgt 415

<210> 51886

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-C8

<400> 51886

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gttctccacg ccgccgtcgc cgcgcgcgtc gcgttggtta ggttgacctg accgatcttg 120
acttctctag gctcttgcac ccccgacgac ggaaatagcc tccgagtttc caacaggggtg 180
gctccggtcg accacgaagc ctgatctgc atgacgaggc tactcgtcat cctgttcgcc 240
ggggcgaccc tagtagtcgc caccaccgcg cagcagcacc atggtgaggg gcccacctgc 300
gccggaggca gcgagcacgt gcttgcgagg ttccgccccg gtgagggtgac cgtggacggg 360
cacaacgagg actgggagag cgtggaggcc tcngagttcg cgctg 405

<210> 51887

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-C9

<400> 51887

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cattatccat ggcggaggag aagcaccacc accaccacct gttccaccac aagaaggacg 120
aggagcagct cgccgccggc ggggtacggcg agtccgccga gtacacggag gccacggtga 180
cggaggtggt gtccacgggc gagaacgagt acgacgagta caagaaggag gagaaggagc 240
acaagcacia gcagcacctc ggcgaggccg gcgccatcgc cgnccggcgc ttcgcaactc 300
acgagaagca cgaggcgaag aaggaccgag agcacgcgca ccgtcacaag atcgangagg 360
aggtcgcggc ggc 373

<210> 51888
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D10

<400> 51888

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aacttcaaca agcagcgggc ggggtctcggg cggcgcgagg gcgcttggtg gacgacgctc 120
aagcggaggc gggcagcgct tgggagtcag gcgtgcgacc ttgcggctgt gctcaggcgg 180
ggcgttgctg gaagcgctag ggagtcgggt gtgcgacggg cggcgctcgt tcctcaggca 240
tgtgcggacg acgctcagac gcatggctgt gtcgaccact tgcagacgac gccgacacag 300
atccaggctc aggtccaggt taagtattgt tttttggtgt gtggacgtga ttcttctagt 360
gagatatggt ctgaagcggc aaggtaaacc ctcttagtct acttgtttaa cttttaaaat 420
atacc 425

<210> 51889
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D11

<400> 51889

actcggttct gaattccctg ctctaccac tcttcctaaa aaacaaaaaa aaaaaaaat 60
taatttaaaa aaaaaaaaaa aaaaaaaaaa agaaagaata aattaaaaaa aaaaaaaaaa 120

aaaaataaaa caaaacaaca aaaacattaa taatcaaaaa ctcatctcat tctctcaaaa 180
cttcataatt ttccttt 197

<210> 51890
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D12

<400> 51890

aaaaaacata caaaaacaca aatttattaa aaaactaaaa tacaaaaaaa aaaggaggca 60
taacttaaac aaacaggaaa aaaaaaatcg accaccactc taacctcttc ctgttctaac 120
tctccttcca tgccacgcaa tactttttat ttaggcctac ttaactttcaa tctcatttcc 180
cgccgttcta caacttccat cactggaaaa tcccttcttt taccacttt attcgctttt 240
ctataatttc ccatctacc 259

<210> 51891
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D2

<400> 51891

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aattattttg ggcttggtta tggttggaag agcggcattt gtattccctt tgtcgttctt 120
atccaaccta agcaaaaagg aggcccgctc aaagatctcc ttcaagcaac aagtaatcat 180
atggtgggct ggtctcatga gaggagcagt gtcaattgag cttgcctata acaagtttac 240
agcatctggt cacactgaag tgcgagtcaa tgctatcatg atcaccagca cagttattgt 300
tgttctattc agcacaatgg ttttcggcct gctgacgaag ccgcttctca gtctcctcat 360
cccaccaagg actggactga acacgtcgtc tctgctctca agccagtcta tgctggaccc 420
actcc 425

<210> 51892
<211> 427
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-D4

<400> 51892

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acaatgggta cttcaatggg agtggatggc tcatttgtat catccatgtc ctctgatatc 120
tctgttgaag aaagcagctt tcgacaactg cagaatgctg ttagtcagct ggatgtgcaa 180
accaaattgt gcattagaga tggtttatac cgattggcac gaagtgcgca gcacaggcaa 240
gttattccaa atatgatgag cagcaatgaa gacaacccgg atataaagga tctgcagaat 300
gcagaaactn tgcgcaaatt cgtcgatcct cggagcatcg agacacagac aaacccgatc 360
gaccggtcta tcgctctgct actnttccac cagtcatcgg accatgcggc tgtggctgtc 420
gacgatg 427

<210> 51893

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-D6

<400> 51893

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ggttctgct gcgatctgcg cttgtgcgat cggccgtcat gttacggcac acaacgacgc 120
cggcgtctgt cgtcgtccgc ttgatcggca actgggtagc gtcgcatcga acgagcgatc 180
ttgtcgcttg atccattgat ccaactgtgt tggaagaacg gcgtcgtctg caaacagcga 240
ggcagagaag cttcggggcg ggcaaagcag cggcgtcttg cgcatagcta cggcgggcgt 300
ggacagaaca gcggcagggc ggngagaaaa gacaaggttt gatgtgatgt gtatttgaca 360
ataaggttct atgtgcgtnc gaattgtatg tcatatatgc atgtgtttga t 411

<210> 51894

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D7

<400> 51894

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ggcaaaaggg catcatgaag cttcacggat gtcaattgag acagggccct actatttcca 120
ctacattatt gagggcagag tatgttatct gactatgtgt gaccgctctt atccgaagaa 180
acttgcatte cagtacctag aagatctgaa aaatgaattt gagaggggtca atggcaacca 240
aattgaaact gctgcaaggc catatgcttt tatcaagttt gatacattca tccagaagac 300
taggaaactg tatttgata caagaactca aagaaacctc gcaaaactga atgatgaact 360
ctatgaggtg catcaaatta tgactcgcaa tgttcaagaa gttcttggtg ttggtgaaaa 420
gc 422

<210> 51895

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D8

<400> 51895

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gtttccccaa aaaattatcc ttgaggggtg aagcattcat gtagatggag aaggtacatg 120
cattacaacg gaagaatgct tgctgaatcc taataggaac cccaacatga ccaaactaga 180
gatagagaat gagctgaagg attttcttgg agtctcgaag gtcattctgga tacctcgtgg 240
actttatggc gacgaggata caaacggcca cgttgacaac atgtgctgct tcatcaaacc 300
cgggtgtgatc ctgctgtcgt ggaccgacga cgagaaggat tatcagtacg aacggtcggt 360
cgaggcgctg tctgttctct cccagtcctg cgacgcg 397

<210> 51896

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-D9

<400> 51896

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ggactggtat gacatcaagg ccccatcggt cttcagtgtg cgcaacattg ggaagactct 120
cgtgtccagg acacagggtta ccaggattgc ctctgatggc ctgaagcaca gagtctttga 180
ggtttgtcta gctgatcttc aggggtgacga ggatcaggct tacaggaaaa tcaggctccg 240
tgctgaagat gtgcaaggca ggaatgtgct cacaaacttc tggggcatga attttaccac 300
cgataagctc agatctctag taaagaagtg gcagacattg attgaagccc atgttgatgt 360
caagacaacc gacaactaca tgctgcgttt gttctgcatt ggtttttac 408

<210> 51897
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E1

<400> 51897
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ctttgaagaa cccttgcaag attatcagcg tgctgtacac tctatacaag ccactatgct 120
tgatcgaacc aatgctttca agcagcacta cgatatgaat catgagaggc tgtatcaaga 180
gcttaatctt gacatattca agttcatgaa ccctgaaacg tatgccgaag cacaatctga 240
gtttccagac ttgaaagcag aactgagga ggctgctcac atatttggac tcatggatgg 300
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attccatgaa tatgc 375

<210> 51898
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E10

<400> 51898
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ctcctcctgt ttgctgtaat ttctccgaac caagtaattg gtagtgcttg tactccggaa 120
cagaaggctg ccacctaata tcaatgcgaa gagtacatca agcctggata ccccttata 180

ctgccatcgt acgccagtgt gtgttgcgac aaggtgagag atgtgccaaa tagggacatg 240
aactgcatcg tcgatctgct cacgcctcca gagaaggcga aacacgggtgt cgacaagata 300
aaacgtctga aagatctctg cgacaactcg cctcatcatc aggtgggtggg gtagacagac 360
agcagctgtc attgctaatt gagttcggag gcaagatata tgggtctaagt aataaagtcg 420
tcgatcaaag c 431

<210> 51899
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-E2

<400> 51899

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gtggccgcct cccgtagaga ggaacgagga atctatctgt aagatttggt tctggtgctg 120
gccgatgaat ggctaaattg atctgttcta gtataagcta ctatcaatat actgtacact 180
tgctaattaa aagaaagaag ttttatgtat gaatgaactg caacttgagt cattgaaaag 240
ttgttgctgg ttttcttttag tttgagttag gggatgcgtc atgcgtgggt ttgaagggtg 300
tctgcttgca atattacatc ataactctgtg actgatgcac tgatgtct 348

<210> 51900
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-E3

<400> 51900

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ctgtactgaa gataccatgg ccaagtcgac cgcgatgttt gtagccgccc tggccctggg 120
ggtggtgatg gcgacgacga gcacaggcgg tggcagggcg gcagcggcgt gcgatcccaa 180
gccgctgggt gtgtgcgac cggcgttcat ggacggagcg aaacccgcgg cagcatgctg 240
ctccaccctg cgtgcgagcagg aggcattgctt gtgcgtgtac gccaaagacc ccaagtttgc 300
aaaatacatc aacaacccca acaccgtcaa aacctttacc tcgtgcggca tagccatccc 360

caaatgctaa gcaagcgctc tgcgtcgctc cttcgcttgc tcttgctctn gtgtgtaaca 420
tatccagctt a 431

<210> 51901
<211> 365
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-C6

<400> 51901

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ggtgctggac aacctggggtc gtctgagcca gcagcacggg ctgtcaagca agggcgccaa 120
cgaggtgctc ctggtcatcg aggcctacaa gacgctgcgc gaccgcgcgc cctacccggc 180
cagcttcatg ctgccccagc tcaccggctc ctacgccttc gtctcttctg acaagtccac 240
caactccctg ctagtcgcat ccgaccccgga gggcaggggtg ccgctcttct gggggatcac 300
cgncgacggc tgcgtcgctt tcttcgacga catcgacatg ctcaaaggct catgcggcaa 360
gtcgc 365

<210> 51902
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A8

<400> 51902

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caagatccag aacagggagg gcatccctcc ggaccagcac cggctcattt tggccggcaa 120
gcagctcgag gactggcgca cgcttgccga ctacaacatt caciaagaga gcaccctgca 180
cttggtgctg cgtctcaggg gtggcatgca gatcttcgtg aagacactta ctggcaagac 240
gatcaccctt gacgtcgagt cctacgacac catcgacaat gtcaaggcca agatccaaga 300
caaggagggc att 313

<210> 51903

<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-A9

<400> 51903

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atgggggagc gttttacctt gcactcagtg ggcttgagga ctacatcaac aagaacactt 120
cctcttccaa taatgcagcc ctgggagctg ttctcaatca gcagttcgct atacagctag 180
gcctgttcac agctttaccc atgattattg aaaattcact tgagcacggg ttcctcactg 240
ctgtgtggga tttcatgaaa atgcagctac agtttgcata tgttttctac acattctcca 300
tggaacaaa gacacactat tatgggagga caatccttca cggaggagcg aaatatcgag 360
ccactggcag aggttttggt gtggagcata agaagtttgc tgaaaactat angctctatg 420
ctcgc 425

<210> 51904
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B1

<400> 51904

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cgaggcgagg agctacgcca tctgtaaggc ggaggaagtg gagcaagagc tggactccag 120
cttccccgtc ttcacaaac ccatgacca gtcccatgtc accggaggct tctggctggg 180
cctcccaaat catttctgcc ggaagtacct gcccaagcgt gacgagacga tcaccctgct 240
ggatgaggat gacaacgagt cctacacgct atacctcgca ttgaagcgag gcctcagcgc 300
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<210> 51905
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B11

<400> 51905

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gatgtatata gctatggagt tgttctactt gaactactaa ctgggaggag gcccgttgat 180
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gactctcaga cactctggat tgtgtgtgca tacgttgttt ttatgtatgt gtgggcagct 360
gacaactgga atttaaactc gaaattgctc gtatatatat atatatatat atatatatat 420
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<210> 51906

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B4

<400> 51906

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tctggctctc ctccaatgtc tgaagctgag gctcatgctt ttgaagtcaa ctcttttgac 180
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ggttacatgg aacttaatga tctccttgct tctgattcaa gcttccccat cccagtgaa 360
tttctgctc aggacaatca atctatgcag tctcctctgg ctgagtacaa tgtgcattat 420
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<210> 51907

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B5

<400> 51907

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 aaccaaata gaagcaggggtg aatgttccag atgaacggtt tgattggctt tgcaaacttt 180
 acaagccaaa gagtgagggtg cctgcatatc ttgaagtaac tgacatagct gggcttatta 240
 gaggtgctca tgctggggat ggtctgggca atgcattcct ctacacatata cgtgctgttg 300
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<210> 51908
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B8

<400> 51908

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 ctaatagggt atgcattagg aggtaaaatg catatgagag gggatatgca aaatacagta 180
 ttgatttgca tatgcatgat ctgttgagg aatctatact atatgttttt tttgt 235

<210> 51909
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B9

<400> 51909

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 agggccctac cagttcttcg attgggagat cacgtacggc agtatcagcc ctattggatc 300

tctacaacag ggaatcctca tcaacgggca gttccccggg ccgaagatcg agtgccaaac 360
 aaacgagaac ctgatcatta acg 383

<210> 51910
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C1

<400> 51910

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 ggaggtcagt ctgggttgctt gcctacattg cttttgtaac atcctggccg ctgcttggct 180
 ccctagcttt catcaccttc cgaaaaaagt ccaggaatcc gttgcgagct aaatgaatca 240
 tacttatatt atgttattac aattacatca tgcaacatcc tctgagctaa aaaaaaaaaa 300
 aaaaatgcaa gaacaaaaaa aaaaaaagaa aaaacattaa caagctt 347

<210> 51911
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C10

<400> 51911

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 gtcccaggcg gtgatctggc caaggtgcag cgtgccgtgt gtatgatctc caactccacc 180
 agtgttgtgg aggtcttctc ccgcattgac cacaagttcg acctcatgta cgccaagcgc 240
 gccttcgtgc actggtacgt cggtgagggt atggaggagg gcgagttctc cgaggctcgt 300
 gaggatctgg cggcgcttga gaaggactac gaggaggctg gtgctgagtt tgacgaggggt 360
 gaggacggcg acgagggtga cgagtactag acgctctact ggcgcggcgt cgtcgggctt 420
 gtgtgccact t 431

<210> 51912
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C2

<400> 51912

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cacgctgtca cgcaagggcg ccaacgaggt gctactcgtc atcaaggcct acaagactct 180
gcgcgaccgt gcgccctacc cggtcagctt catgctcgcc cagctcaccg gctgctacac 240
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ggtgccgctc ttctggggga tcaccgccga cggtgcgctc gccttctgcy acgacatcga 360
catgctcaaa ggctcatgcy gcaagtcgat cgcgccgttc ccgcaaggct gcttctactc 420
caacgccctc tggaggetca agtgctacga gaacc 455

<210> 51913
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C3

<400> 51913

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ggagaacatt caggatcttg accagcttaa ccgcaagctc aaccagatcg atgatgaggt 180
cgccatcttc catcatatgc aagccaaagt ccacaaatac attcacgaac gtgaccata 240
cttcatatca tctgatgcta caagatcatg tatacaccag gccttgacat gttggaaata 300
tagattatgc tttcacccca caataagtgc atcatcatctt ccaagcatgt tgaactatca 360
acaaggtagc aatcttgact gacaaatttt tcatccaaa 399

<210> 51914
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A7

<400> 51914

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aaaattggta ggagaaaaaa tataataata atactaagta ataattgtgt gagaatttgt 120
aaaacctttg agacttatta gtgcctttcc ttttcataat caaataatga tattaaaatg 180
gtcgtgtaac caataagtga ataaaagagt ggacatctca tacttatgaa aatgtggtat 240
cattaccaa ataaaataac actaataaat aaataaataa ataaataaat aaataaataa 300
acaataagt gcacatcata ctggagtttt attttgtgca tctgaaataa gtttgaaatt 360
cataatcaag atctgatttg aaatttaaaa caaaaaaact tacaaaagaa taggaaagga 420
aa 422

<210> 51915

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C5

<400> 51915

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atccctgagg acggcgatat ggacggcgct gacgttgata tggccgccgc cggggacgac 120
gcggcgaagc ttcaggagct tgacgagatg aagcgcaagc tgaaggagat ggaggaggag 180
gccgccgccc tccgcgatat gcaggccaag gtcgccaagg agatgcaagg aggtgaccct 240
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gttgattatg cttgcacccc agaagaagtg cagcagcatt tccaagcttg tggaactgtc 360
aacagggtga caatcttgac tgacaagttt gggcagccaa aaggttttgc ttatgttgaa 420
tttctggaa 429

<210> 51916

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H3

<400> 51916

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cagatttggt caggagacca tcaagaaaca agtagcaagc atgtatttgt ggccgaagac 180

actagaagta cctataatgg atccctcaaa agcatcaaaa aggcctgttg gaattctact 240

tgtgaagggt gtgagagccc aaaatctgcg gaagaaggat ctgctgggta aatctgacct 300

atacgtgaaa cttaagatgt cagatgataa acttccatcc aagaagacaa ctgtaaagcg 360

cagcaatctc aatccagagt ggggtgaaga cttcaagttt gttgtgacag atccagaaaa 420

ccaggctctt gaagttaatg 440

<210> 51917

<211> 178

<212> DNA

<213> Zea mays

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<400> 51917

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taaaaaaaca aaacaaaatc aaaaaaaaaag gcaaatttaa aaaaaaacat tctccaaaat 120

accaacctaa ctacacaaac atcctaacc ataactaata tataatgaca ccaaaatt 178

<210> 51918

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H5

<400> 51918

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agctacaaca agcgcttgcg gcgagcgtct tacaacaacc aattaaccaa ttgcaacaac 120

aatccttggc acatctaacc atacaaacca tcgcaacaca acagcaacaa cagttcctac 180

cagcactgag ccaactagat gtggtgaacc ctgtcgcta cttgcaacag caggtgcttg 240

catccaaccc acttgctctg gcaaacgtag ctgcatacca acaacaacaa caattgcaac 300

agtttctgcc agcgtcagtc caactagcca tgggtgaaccc tgccgcctac ctacaacagc 360
aacaactgct ttcatctagc cctctcgttg tgggtaatgc acctacatac ctgcaacaac 420
aattgctgca acagattgt 439

<210> 51919
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H6

<400> 51919

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cggccagcga ggggcaccgg gcaggtgggc agcagcaggg gacaggctgc aagcagaaat 120
ggacattaaa ggtcttgagg cagataaact ggagtgcagg ctctatgtag ggaacctaga 180
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cgaggatttt ctgtggcaca cacgcggtcc aaagagagggc gaacccccggg gctatgcctt 300
tgttcagtac accactaaag agcattcagg aagctcagtt agcaaaggag aagatgaatg 360
gaaagttaat ctgcggacgc ccaatggtag ttcaccttgc tagtgagaga agttctctag 420
gctcttcaag ttcacataga gc 442

<210> 51920
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H7

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cacattcaac atccataact ccaaaccact ttccaccatg ctctatataa caaaccttct 180
cttaactata tcacaaacac atgatctttt gaaaccaacc aatctcataa cattaacacc 240
atattataaa cttaccacca cactca 266

<210> 51921
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H8

<400> 51921

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atggtaccaa agtcttgatg gcttggcttc aaggcgtgct gactactata agcaggtggc 360
gcgcttcgca tagcgcatga ctgttgctag catccatcgt ggtgcatctg cattatcagt 420
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-H9

<400> 51922

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tacagctact cggcggcgcc gaggacgacg ccgteccacc tcctggtggt cctggccacc 180
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A1

<400> 51923

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taagactggt gatcctgcaa agcgccctgc tccaatggcc agtgggtgca gaatagaagg 180
ctttgtcgt gtcaaaaggg ttccaggag tggtgttata tcagctcgat ctggatctca 240
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aagactttcc ccaaggatgc tgcataaatt cataagactt actccctata ttctgggata 360
ccatgataga ctactggcc agtcttatac tgtaagcat ggtgaggta acgccaatgt 420
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<210> 51924

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A10

<400> 51924

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atctacgtag ttgattcggt ggatcgggag agaattggaa agccaaagct tgattcaggc 420
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<210> 51925

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-007-Q1-K1-A11

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gcaggccact gggcgctgcc ccaaccgcc gggccggact gcgcgtggcc gcgcttaagt 180

acgaccctgc taaggtggca ccgcagaacg accgggtgct cgtccgtctt cagcagatcc 240

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tgatgggtga gattctatcg gttggtgctg atgttagtga agttgaggct gggaaagagg 360

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<210> 51926

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<212> DNA

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<400> 51926

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tcgttatgtc ctggcttttc gcgccttaca ttttcaacc ttctggtttc gagtggcaaa 180

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tcagaggacg tattcttgag acaatcctca gccttagatt tctcatgttt cagtatggca 360

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<210> 51927

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A2

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<210> 51928
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A3

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 aagtgatcat gtggccatat ctgataatgt ggttctaaaa acatcatcat tgtagctta 180
 aacaatgtac tttaaatgg ttgtaatat aataatatgg ggaagtcgtt ctatgggttaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaatttaaaa aaaataaaaa 300
 aaaaaacaaa atatt 315

<210> 51929
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-A4

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 agtgcacctc ctctaagtca gcactttgat aagacatggg tgtcccatgt ccagctgaaa 240
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<210> 51930
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-A5

<400> 51930

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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 51931

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gcggcaagaa gggggtcagg aagatggtgc acacaccaga gtacaggtgt ctggacaagg 300
cagcggatgat caaagatcca gcgtctgcgt tccgagcacc ggcaggtcaa ccacagggcc 360
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<210> 51932

<211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-H2

 <400> 51932

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 aataaccaa cttacatata cttacctgcc actccatacc catcttttag acctaccaa 180
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<210> 51933
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 <212> DNA
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 <223> Clone ID: LIB3079-006-Q1-K1-F9

 <400> 51933

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 aggctactct caagtacaac gtggctatta agtgtgagac cattactcca gatgaaactc 120
 gggttaagga gttcaatctg aaacacatgt ggaagagccc aaatggcaca attaggaaca 180
 ttataaatgg cactgtgttc agagagccta ttatatgcaa aaacgttcca agacttggtc 240
 caggatggac taagcccatc tgcattggaa ggcattgcctt cggatgatcaa taccgagcta 300
 ccgatgcagt tctgaagggg cctgggaagc tgaaactagt ttttgaggga aaagaagaac 360
 agattgatct ggaggtattc aacttcactg ggtgctg 397

<210> 51934
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-G11

 <400> 51934

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atgcatccat ttttgttggg ggtcttgacc ccaatgtcac tgaagatatg ttgaaacaag 120
 ttttcacccc ttatggggac gtagtccatg ttaagattcc tgttggcaaa agatgtgggt 180
 ttgttcaata tgctaacaga tcttcggcag aggaggcatt ggtaattctg caaggcacct 240
 tggttggaag gcagaatgtg aggctttcat ggggtcgcag cccttcaaac aaacaagttc 300
 agcctcaaca ggactccaac cagtggggcg gggctaatagc tggatattat ggctacggtc 360
 aaggctatga ggctatggg taccgccagt ctcaggaccc ttatatgtat 410

<210> 51935
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G12

<400> 51935
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 gggataatc aattccgagt gaaataaatt acatatagcc atctagaaga gagtcctttc 120
 taggtgagta ggtgtcctct tacgcgtggg tgagagaacc cactaggagc cacagccacc 180
 taacagtctg ttctcctggt gaatcggaag gaccaaagcc gacccaacgg gatcaaaatt 240
 tgaatttgaa cccgaacaac ggaaggagtc cgaggcccag tcatggagga ggagaaccaa 300
 gtgatggag 309

<210> 51936
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G3

<400> 51936
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 ggtaggaacc cgtgccgacc gactcttcct ctgcgggacg gtctcgagtt tggtcgggag 180
 atgggtgacg ggagctgctg cgtctgcaag gaggcgccgc ccaagtacaa gtgcccttct 240
 tgtcgcacgc cctattgctc tgtcacatgc tttaaaaagc acaaagagga atcttgtcaa 300

aagatattgc atcaggaaga aattagcaag tcagcattgc aggaggaagt tacactgcac 360
accacatgca ctgcagaatc tccaaatata gcgtgcccta caaaagctct tgaagttgag 420
gacctaagct gg 432

<210> 51937
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-G5

<400> 51937

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ctcctcatcc accgcccggg ccgcccgcgc cagcccaagg ccaggcatcc gccagcctct 120
cgcaccacgc gtatcgcgtg cccgcccgcg cggtcgtgg cgatggcgta cggggcggac 180
gacgactacg actacctatt caaggtggtg ctcatcgggg actccggcgt cggcaagtcc 240
aacctgctct cgcgcttcac ggcgaacgag ttcagcctcg agtccaagtc caccatcggc 300
gtcagagttcg ccacccgcag catccacgtc gacgacaagg tcgtcaaggc ccagatctgg 360
gacaccgccg gtcaggaaag gtaccgtgct atcacgagcg cgtactaccg cggagcagta 420
ngggcgctcg tcg 433

<210> 51938
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-G9

<400> 51938

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cactgtcgcc gagcgcgtga ccatcgaaaa acacatgatc gacggccgaa tgggtggaggg 120
caagaaggct gttcccaggg atgaccacag tattgtgagc aagagcaaca caagcagcat 180
agggtcacct gggccggggc gtaccagaaa gatctttggt ggaggtctgc cctcaaagt 240
tacagaggct gacttcaggg ggtattttga gcagttcggg gtcataactg atgtggttgt 300

gatgtatgat cacaacacac agagaccgan gggctttgga ttcacacac atgattcaga 360
 agatgctgtg gacaaagccc tgcacaagag ctntcatgag ctaaatt 406

<210> 51939
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-H1

<400> 51939

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 gcgaccggga tgctcttcac gaggaagagc ttgcttcag ggacagccct accggaaggt 120
 accaagttct gcggccaagg cttctctgat cccgagaggt ttgaactacg agcggatgag 180
 gatgccatcc cgttcagcta cagccagctc gacaccatcc tgaggatgtt tcggatccct 240
 cgggggtcca agaaggcaga gcaagtcgcc gncacgctcc ggacatgcga ggctgagtc 300
 ncagaggctc atgcctgcgc cacctccgag caggcggcgg ccgacttcgc tgctnctcg 360
 ctgggggtca gggccagcaa gctggtcgag ctgctacca ccgtccatgg ggngaaagac 420
 gccactagat acgtgg 436

<210> 51940
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-H10

<400> 51940

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 gggaattctg accatgcaga aacttatgaa gaagtttccc caggatttgg agactgccga 120
 cgcaagcctt tctgcttctc agaacactgc agcatcggtc gttccttcca caccgacttc 180
 caggacttca ccatgcaagc ttgaggggag gaagtctgc caaatgatcg cgagcgggat 240
 tctgctgggt ggaagcatcg cttgtctatc tcgaggccga tccaacctcg gggcgcagct 300
 cgcgatggcc ttcttctga aaaaggcctt caagcaagag aggcaatcaa gctcctcatc 360

gacatgaatg gtgnaaacat acgtgactag atgc

394

<210> 51941

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-H11

<400> 51941

cccacgcgtc cgatttgcgc cgccgcagcc cgcagtcgct tgccgcgcagc agcacttggc 60

accgccgccc catcccattg ccgccagtgt ctgctcgatc cgatggctcc cacgaagaag 120

tcgaagaaga gcacagagag catcaacaac aagctgcagc tggatgatgaa gagcggcaag 180

tacaccctgn gctacaagac cgtcctcaag acgctgcgca actccaaggg aaagctgatc 240

atcatcgcaa acaactgccc tccacttagg aagtctgaga ttgagtacta cgccatgctg 300

gccaaagtta gtgtgcacca tttccacgga aacaatgttg atcttggcac tgccctgcggc 360

aagtactaca ggggtgtgctg cctcagtatc atcgacccan gtgactcgga catcatcagt 420

acc 423

<210> 51942

<211> 360

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-H12

<400> 51942

agaccattag ctttatctac tccagatcgc ataagaacct gatcgacacc atgaggggggt 60

tgctcgttgc cctcgtctct ctggctctcg ctgcgagcgc cacttcacgc atacaagccg 120

cggtctgcggc tgccagccac cgnccgcccgt tcatctaccg ncgcgggtgc atctgccacc 180

tccggttcac ctgccacctn cgggtgcatct nccaccgccc gtccacctgc cgnccgcccgt 240

ccacctgcc aacnccggtcc atgtgccgnc gncggttcat ctgccgncgn caccatgcc a 300

ctaccctact tcaaccgccc ggcctcagcc tcatccccag ccacacccat gcccggtgcc a 360

<210> 51943

<211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E11

 <400> 51943

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ccgacgcgtc cgccacgcg tccgccacg cgtccgtgga aaccagggtg cagctgggtc 60
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tgcatatgga actggaggggt atggtggcag tgctgggtat agtgcttgga acaactcttc 180
tgggtggcggc aatgctctga atagtcaagc ccctgggtgga cctgcaggct atggaagcca 240
gggctatggg tatggtggat atggagggga tccatcatac gctagtcacg gaggatatgg 300
ngcttatgga gcacgtattg atagtgtggt caatcctgct actggtggat catctggata 360
caatgcangc tatggaagtg gtggtgccaa ctctggctat tcaagtgctn ggagtgatcc 420
t 421
  
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<210> 51944
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-E12

 <400> 51944

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ggaaggcgtt taatgtggca gaattctttg ggacactgtg tcttgaaagc agactgtgcc 60
aaatgcaaaa aggaacttgc agtatcattg ttccagagcg tgggtttgat gttgttcaat 120
gacgcacaaa agttaagctt cattgacatc aaagattcca ctggtatcga ggataaagaa 180
ttgagacgaa cattgcaatc tcttgcatgt ggtaaagtgc gggttctcca aaagatacca 240
aaagggagag atgtagaaga taaggatgaa tttgtattca atgaagattt tagtgctcct 300
ctctaccgca taaaggtaaa tgcaattcaa atgaaagaga cggtagaaga aaacacgagc 360
accactgaga gagtgttcca ggatcggcag tatcagggtg acgcggccat agttcgaata 420
atgaa 425
  
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<210> 51945
 <211> 352

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E2

 <400> 51945

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 tgcatagaggc ggctgaggcc taccttgctg ggctcttcga ggacaccaac ctctgcgcc 120
 tccacgcca ggcgcgtcacc atcatgcca aggacatcca gcttgcccgc cgcataccgc 180
 gggagagggc ctaagcgtca tattttctgt catcagtgcc cgatcagaag atgtagagat 240
 atgctgggtt ctgtagtttg ggttactgtc gaatcatcga gtgttggtg ttcactgctg 300
 taacttaatt atcatgatgc atatgaaatg gcaatgaact ctgttatcag tt 352

<210> 51946
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E3

 <400> 51946

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 gagagctggg gagcgggcct gcccaagatg agcaggtgaa gaagaagcgg ggtaggccaa 120
 ggaagtataa gcctgatggg gcggtgactc tcgggttatt accctcttca tcattaacac 180
 ctactcggc cagcttgggg atgggaacca tgattagtgc tccaggttct ggatttgggt 240
 cggagggatc aggggcttca ggcttgggtg cgccatcaga gaagcgtggc aaggggcggc 300
 cacctggctc tggaaagatg caacagttgg ctctcgttgg aaagtggatt cttggctctg 360
 ttggaactgg ttntactcct catgtgatta ttattcagcc aggagaggac gttgct 416

<210> 51947
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E5

<400> 51947

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catccggcca gtgaccacgc tctactagcc gcccggaagg agttcttccg ggattcgagc 120

cgttgctgcc ctcacctctg caggcccagc gtcgagcgga gatccaatcg gaaattgaac 180

tgacttcate ttttgctgca tcccagtcag gagaagcaat gtcaggagtg atcacaaagt 240

tcgcggttac atccatgggtg atgtggatgg cccctgttgc gatcatgtat ggggtttact 300

accagggtgt tccagggtgtg agtcagatgt catcctcggc gcagacactt gccagtgggt 360

tcctggctgt catatcagtt aatctagtga tcggctntta catattcatg gcgatgaatg 420

agactccaca cc 432

<210> 51948

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-E7

<400> 51948

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ttccaaaatg cttcttcatt catggaacca gtaaattctag aagctttcag ttttcaaggg 120

gcacaaaagtg attctgtttt gaacaaaaca acacatccaa atgggaatat ctcagtattt 180

gacagtgtcg ccttggcatc actacatgat agcaaagagt ttatcagtgg taggctcccc 240

tcatttgcta gtgtccagga aacaaacgta gctgctagtg gtttcaagac tcagaagcag 300

gagcaaaatg cagtgtgcaa cgttcctatc cctacgttca ctgcacgtaa tcaaattgca 360

gttgctgcaa tgcccggatc actgatccct caaaagattc cttcatggat caatga 416

<210> 51949

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F1

<400> 51949

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aaaaaaaaa aaaccgacaa atttaaaaaa acccaactca acaaaccat acaaacaaca 120
 acatacatat taaaaaataa ccacctacaa acacttcact aaatcccaat tacacacacc 180
 acttactcaa aatcccttac tttaaaaaa cttccattac ctaacaaaaa atccccctaa 240
 caaaaacccc tttaaacaca aaaaacccta cccaacccc ccttaccaac ctttccccac 300
 acccaattt 309

<210> 51950
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-F12

<400> 51950
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 agttggtatg tagtgacggg taagaaatac tgtggtggtt tggacctcag ttattggcca 180
 gatgaagggc gaaggccatt atcagatcct cgtccacctt tgggctattg ctgacaagtg 240
 gacgagtgtc gtacacctct ccaattcccc cttcaatgt ggtcagtgtt gaatcatcta 300
 cgtcatcacg tgagcaaggc catactgatg agggaaggga tgacatggat ttttctcggt 360
 cgagcatcag gttttgtgcg ttgattatgg tgtgctcggt ggtgagactg cgacgtntct 420
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<210> 51951
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-F2

<400> 51951
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 gagaggacca tcaaggactt gggaaaggcc aagggtttga ggaggagcag caagggcgtc 120
 cacaacagga aggagatcat gtcccagtcg gctgcgactc tatctcgggt tccaggacca 180

gtatgcacta aaatggacgc ccaagatgca tccggtctcc gattgacgac gactggacat 240
 gggttgaaag ataacgagat taaccacccc aactgggtcc accctaaaat tcacccggag 300
 tcaacgggaa tcgtcgaaac aagtcagcgt tcagattctg ttttgggtgct gcgacaccgt 360
 ctgttgngtt gttgggtcga gtatcgcgtc ggagcccatt angggagagt ccagngctac 420
 gcacgcncta atact 435

<210> 51952

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-E10

<400> 51952

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 aaactgctct caggggtggg agcggcaagg ttgtggacag tggccccaat gaccatata 180
 ttgttttcta cagtgacct gggggtcctg gcgtccttgg aatgcctacg tatccatata 240
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 gcctggtctt ttatcttgaa gcatgcgaat ctgggagcat ctttgagggc cttctgccga 360
 atgacataaa tgtgtatgag accaccgctg caaatgcaga ggagagtagc ttggggacgt 420
 actgccctgg c 431

<210> 51953

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C5

<400> 51953

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 tacgatggcg atcggcaccg tcatcatggt ggccactctg ggttcaatgt gctactgcat 180
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gtcgtggtcc atatcgatcg actccgaaac ggagctgatg aacagcgagt acaagaagat 300
gtacgccatt taggataggg aacggccatg cttgccatct gaggctctgta tatactggta 360
cccaaagtcc atggcattgg attgactgag ctatatattta gtccgtagac atggcacctg 420
tatgtaactg 430

<210> 51954

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C6

<400> 51954

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gagttcttgg ttgacctggg cctcttcgga ccacctccaa ggctcttggg gtagcttgcc 120
actctcacca atcaagtttt catgtctgat ctcgacattc agatcccaac tgccttcgat 180
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cacgtgcgca tccagcagcg taatggtcgc aagagcctga ccaccgtcca gggattgaag 300
aaggagtcca gctacagcaa gatcctcaaa gatctcaaga aagagttctg ctgcaatggg 360
acagtgggtcc aggaccaga acttggacag gtcattcaac tccaggggtga tcagaggaag 420
aacgtctcga 430

<210> 51955

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C7

<400> 51955

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gcggcggcca tgggtggcgcg cggcggcgac ccaaggccgg aggacgagcc cttctccgac 120
ggagacgcca cggagtcgga caccgacgag tctcctccgc aggggattag tgctcgccgc 180
cccggcggcca cactaaccg gatcctgact cgctcgcgcg tgctcgcgaa cccgagcccg 240
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gcgggatccc tcgtcggcgc cgttgtcgga tacggtaaag gtctggtcac gaggaagggg 360
 tttaaaggat catttctga tgctgcttcg tctgctaaga tatttgctgt ccttgctggc 420
 gtacaaagtt tggt 434

<210> 51956
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-C8
 <400> 51956

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 cccactctct cctcgagcac actgatgttg ctgtcctgct cgacaatgag gccatctatg 180
 acatctgccg ccgctccctt gacattgagc gccaaccta caccaacctc aacaggcttg 240
 tctcccaggt catctcatcc ctgacggctt ccctgagggt cgatgggtgct ctgaacgttg 300
 atgtgaacga gttccagacc aacctggtgc cctaccgag gatccacttc atgctttcgt 360
 cctacgctcc agtcatttct gctgagaagg cctaccaaga gcagctgtcc gtggctgaaa 420
 tcaccaacag cgct 435

<210> 51957
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-C9
 <400> 51957

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 tggattgtta tggtgatcct gaatttatcg gcaagattgg aacggacatt gaagattaca 120
 agtgctcatg gctagttgtg caagcccttg agcgtgctga tgagagccaa aagcgcttc 180
 tatttgaaaa ttatggcaag aaagatccag cctgtgtggc aaaagtgaag aacctctaca 240
 nagaacttga cctagaggcg gtatttcagg agtacgagaa tgagagctac aagaagctg 299

<210> 51958
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-D1

 <400> 51958

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 tcggcagggc cccgtcggct gctaccgcga cgggcttcta ctcggtgcac gtgcaggagc 180
 agacggagct ggtgcagaag gcgctgcagc gcgaccccc caactaccct ttctgaaaga 240
 aacgaggccc ctgtagattc ttggaattgg ggaccttttg aatttgatat aataccaata 300
 tagagagaac atgccttaaa ttttatctgt gcagccatth ggtgaaataa ttgtttcgac 360
 tctgcagtac cgcatagaac aaaccgttgt aagtttgg 398

<210> 51959
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-D11

 <400> 51959

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 aagctaagac ccccgccaag gcgaagcccc ccacaaagcc caagcccgcg gcgaagccga 120
 aagccgtagt gaagccgaag acaccgcga agcccaaggc caagccagct gccaaaggca 180
 agcccaagac cgtcggcgct aagccgaagc cacttgctaa gaaagccggc cgccccgcca 240
 aggcggcgaa gacgtcggcc aaggacacgc cagggaagaa ggcgccggtg gccaaagaagt 300
 ccgctgctgc cgcaagaag gccctgcca agaaggccgc tccctcgaag aaggcggcga 360
 ccccggtgcg gaaagcgccg tncgtaagg ccaagaagta aagcggccaa gaaggggggc 420

<210> 51960
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D12

<400> 51960

gcgtcttctc cggcggcgac cagtactatc taccatgggt aaagcgagtc ggcgcgagat 60
gcattacgca gcatgtgtac tgtgcgcgtg caaatccaga atgacgtagc tctgacgtgg 120
gctcgcaata ttgtcgcgag ctctttacaa tcatgatgat aactatgagg aataaataaa 180
acagaaaatc gactgaacac ataggaaaac aaagtgtatc aaaatgctga actcaataat 240
aatgcatcta catgcttatac taaggcacgt ccattttaga gggcc 285

<210> 51961

<211> 313

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-D2

<400> 51961

ccgacgcgtc cgcccacgcg tccgctcctt cagacctcgc gctccgccga gaagatgtgg 60
aagatcgact cccacctggc gtgcgccgtg gccgggatca tgtccgacgc caacatcctc 120
atcaacaccg cccgcctcca cgcccaacgc tacgcgctct cctaccagga acccatcccc 180
gtcgagcagc tcgtccagtc cctctgcgac accaagcagg gatacaccca gttcggaggc 240
ctncgccccct tcgggggtctc ctctctattc gccgggtggg acaagcacca cggcttccag 300
ctctacatga gcg 313

<210> 51962

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D3

<400> 51962

taagtaatta aagaatggca ttaacagttt tctataaacc acttaaaaaa ttataataat 60
ccgacaattt caccactttt tagagagcat caaagattct gtcttcccaa ctgagcttat 120
accctttttt gacaaatcta tactgaatgt caatcttgct cctactgatt aagaatttac 180
tgagccattc aagcattcta ctctttttga aaggtaacta ataaacctca tcgaaccttc 240

tgataataat acttccaatg ctacttctta ttctttctgct tccactagta caactgcttc 300
taggactatc acaatgaacc attctttacc atcaaccttc ctacaaatca cgttctcaaa 360

<210> 51963
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D4

<400> 51963

cagggtatatt ctctctgaca gaagttcctg attccctcgg cagtggcgtg gttgcctagg 60
tttgctgtct gtttttgagc tactcgtttt ttcgctgtct tgtgctcgtc gtcttcctg 120
gtgtttcagt agcaatggaa aagggtgagt gagcctgtgt tgtgttacia gcatcccagt 180
tcaatgggaa aacaaacaca taagacatga accaactgaa cagcttgatt taatggaaaa 240
tgctaacaca actaacatga caaataaaaa acagatataa caagaacaac agat 294

<210> 51964
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D5

<400> 51964

ctgctgttca tattttgtca ctcaaaatat tcatctggtc cacactttgt aacagttgac 60
cagtcgtgaa ggacagccga gccaatgttg cgtttgatct caagaatgac gtcattccaag 120
ataagatggt ctcatatgag ttcattccat taactttaat gggatgactt taccctttct 180
gttgactata tgtgcttgta agatgagaaa gtatctagat ctttagtggt tttggtgatt 240
aatgccaaca caagattatt gtaactaaca tgtgtgttta caaagataaa ttaatgttag 300
gtcacaatga tgaaaaaaaa aaaaaaaaaat aaaaataaaa ttaaaaataa taaacataaa 360
aa 362

<210> 51965
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-D9

<400> 51965

ccgacgcgctc cgaacgactt caagcattca ggggagaggt accgctcctg ggacgccggc 60
cgacaggacc gattcgtgag gcgattcgcc gactcgctcg gacacccaaa ggtcagccag 120
gagctcaggt ccatctggat agacctctc gccaaagtgcg acgcgtcgct ggggatgaag 180
attgccaccc ggctcaacat gaaggcaaac atgtgatgct tctgctgaat agaataataa 240
tgaagacgca tgcattgctg cgccaggaac aagagaaata atacaagacc accacgcatg 300
ggcatactcc atatatatat gtatagcccg tgcccggtgc cgcctttgta ccaatacaag 360
ccaagactag tggatgtatt attattatta ttattgcgct atcacatata tgtaccct 419

<210> 51966

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-C4

<400> 51966

caggtctgaa gtattatgac acataccttc ctttcctttt ggaggcatca aacgatnaga 60
gttcatatgt tcggcaggct gctgtctatg gtgtgggtgt atgtgccgag tttggtggtc 120
atgtttttcg cctctagta ggagaggcct tatcaaaatt aaacaatgtt ataaggcatc 180
ctgatgcacg acttctgat aatatcatgg catatgacaa tgctgtttcg gcgcttgga 240
aaatatgcca atttcatcg gatggattg atgcagctca ggttggtcca gcctggctta 300
gctgcttgcc tataaaagac gacaagggtg aagctaaagt tgtacatgga cagctttgct 360
ccatgggtgga aaggctggat g 381

<210> 51967

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B10

<400> 51967

ggcgcgcgaca acagcgtagt gtagtggtgt tccggagagg gttggggaga gtagtaggga 60
 tccgcaatgt cgacggagga ggctggtgtg gctgaagtcc cggtgaccga ggtgccagcg 120
 gaggtcccgg cggcccaggt ggccgaggcg cccaaggcga agaaggcgcc caaggagaag 180
 aaggcgcccta aggagaagaa gctttccgcg gcgaagaagc cggcggcgca ccctccctac 240
 gctgagatga ttgtagaggc gatcgctgcc ctcaaggaga ggaaggggtc gagctcggtg 300
 gccatcagca agtacgtcga ggggaagcat ggcggaagc tccccaccaa cttccgcaag 360
 cagctcactg tgcagctgaa gaagctcgc 389

<210> 51968

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-B11

<400> 51968

ccgacgcgtc cgcagacaaa tgcacactat cttattaggt atctagctac tgcagttggt 60
 gtcaacaaaa ggagaaggaa tatgcttaaa gagttgatta aggtcattca acaggagcac 120
 catagctaca aggatcccggt aactgaatgt ctggaatgct tatatgttaa ctatgattnt 180
 gatgggtgctc aacaganact catagagtgt gagcagggtta tactgaatga tccattcctg 240
 ggaaagcgca ttgaagaggg aaattttgtc agtggttctt tgagagatga gttccttgaa 300
 aatgctaggc tttntatgtt cgagacatac tgccgtatcc atcgggtgcat cgatatcagc 360
 atgcttgctc agaagttgaa catgagctac gatgaggccg agttgtggat catga 415

<210> 51969

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B2

<400> 51969

ctgaagggtgc tggctgcaga aaatgagctt catggcttca ataactagct gtatgatctg 60
 cagattcttg gactgttgag ctgtttaacg gcagatatta acagttgcag ccttacaggt 120
 gcttcgtcaa atgttgaggc attgctgctt aataactgtt tgggggatag agtttgggtt 180

atacactgta ggtgaatctt cacgttgata ccacaaacaa tgtgtggaag tttcaaaacc 240
 attaaaaaag aagatgtgct acaatccaat ggcgtcaa at caaacaacaaa gagtctgctc 300
 atgtactaaa tgctagtagg ctgctgatga agcttactat agggaattca aatagggcca 360
 acgaattcta ttcctcatc 379

<210> 51970
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-B3
 <400> 51970

gtgggaagca ggttgaaata aagaaggctg aaccaaagaa acatggatct gataacatgg 60
 gtaatgggag atcaagccaa gggggtggag gttaccgcag tacttaccgt ggtgggtggg 120
 gagctggtag tggcagcagc ggcagcgggtg ggggtgggta tgggttttggg gatgcttattc 180
 gatctgctgc agcgagttat ggatatgatg gtggcgccag agcaggatat ggctatggta 240
 gaggggtatgg ctatggaggc aatgctggct ttgcgtctgg ttttgggtggg ggggtatggg 300
 gatccatgta tggaggcgca tatggtgcat atggggcata cgggtgggtggg gcttatggag 360
 gtggtgccta tggagggtggg gcatatggaa gcagcgcccta tgggtggcgcc ccagggtggg 420
 gttatggcac 430

<210> 51971
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-B4
 <400> 51971

agggcgtgca atcacacaac cctcctgggtc aatgtcgccg acctcaactc gtcgccgtag 60
 cgggttgtag ctgggatgtg gggcagcaac aagaaaccga acctcgactt caccctagga 120
 cggatataat ccgcactgtc tatctacacc tcgaccatca gctgagccaa ccgagatcga 180
 tcgatcggcc ggccatggat acgaagctag atacaggcta gagctagctg cactgcatac 240
 ataggttgat ctgcttctaa gctgcatgtt ttatgatctg atggagcatg tgcgtgcggg 300

atgcatgcat ggtcgtagcg agggaacaat gaagaagaac caaacgctt gaagaaatga 360
 aaaaagaagg cgcgctagga gtaaagaata ggagatatgg caaccgtgga tgggatccag 420
 gaacaaatta aagctag 437

<210> 51972
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-B5
 <400> 51972

agggagagca agcaagagag gacgacatgg cggcgccacg gagcctggcg gacctcgctc 60
 tgctcggcgt ggcggaacctg ataaagctgc tcccagagcg caccgtgttc ctgttccagt 120
 tcctgagccc gctggcgagc aacaacgggc actgcgccac gctgaacaag gcgctgagcg 180
 gggcgctggg ggcgctgtgc ggcgcctcct gcgccttctc ctgcttcacc gacagctacg 240
 tgggcgcgga cgggcgcgtg tactacggcg tggtagcgcg gcggggcctg cgcaccttca 300
 cgcccgaccc ggacgcgcnc gtccgggacc tgtcggcgta ccgtctccgc gccggcgact 360
 tcgcgcacgc cgcgctctcg ctgctcgtct tcgccaccct cgcgctcctc gacgccgaca 420

<210> 51973
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-B7
 <400> 51973

ggagctagaa attactgcat tgcacattaa tctccatgct actgatggaa acaagagcaa 60
 aacctatggc cctggcgctc attctgatct tagagctctc gctcaatctg gcattaaaat 120
 aggacgtatt gacgatgtta ctccagtcgc aacagacaac acacgcataa gcgatataga 180
 acagaaagat cttaatttca gtactgactt actgccctgt acagaagtag cagttacaag 240
 tctctatgga tatcatatac tgaattatta tgcttattat cgattgaact attgactgaa 300
 ctcatgaatg attactaata ctcatcttg acatggaata caacataact gtacaattac 360

tagaaaagac cctggaacaa cagctgcgcc aactcctgac aacaatgggt gtgccaaaac 420

<210> 51974

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-B8

<400> 51974

ctggtagaca agaatggtca tatgaaattg tcagattttg gatttgttaa gccaatgatt 60

gttcgaagtt gtcaacgctg aatgaaaatg aaccaatgac tgatgaaaac cttagggagt 120

ctatggacat cgatcattct ctctctgata ctgcaaattg taggaggtgg agaagtccaa 180

atgaacagct tcagcattgg cagaacaaca ggagaaaatt ggcattttca acagtcggga 240

cacctgatta tattgctcca gaggttctac taaagaaagg atatggacta gagtgtgact 300

ggtggtctct tggtgcaatc atgtatgaaa tgctngttgg ttateccacca ttttattcag 360

atgatccact agttacatgc caaagattg tgcattggag aagctatttg aattt 415

<210> 51975

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B9

<400> 51975

ctgccacaag cacctgctat agttgtgtgg tgcaaacacc aaaatggtgc ctgccaaggt 60

gtgatttggt ttcttgatag tgtactgctc agtaacattt tcgctaggtc agatagctgt 120

tggcgaggca tgcacagtgg atcagaggga caagatcaca acggactgca gagagtccat 180

caagctgaaa ggccccgtca cagccccgtc gtacaccgac gactgctgct tcgccataag 240

agcggtgccc aatctcgaca tggagtgcac cattcgctct ctctccaata aacagaagaa 300

gaagtacgac gtggacaaga tccggcggct cggcagcgtc ctctgcaatc cacatccggt 360

gatgacgtaa aatgggggtgt ggcagtagtt tctgatggag tgcacgct 408

<210> 51976

<211> 381

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-C1

 <400> 51976

 ccgacgcgtc cggcgcgtct cgggaccttt ctctgctcct cgccgacgat gccgccgccg 60
 cctccttttta caccgggtgc gggctcgctt cgttctctgc gtcccaccgc aaccgctcct 120
 tcggccgcgc gcgggcgtcg ccgtcccgcg cctcgccctc cgcgcaacta cgctcgctgt 180
 cgtggagcgt gtcccgccacc tggtcggcgg cgcgccagct gcaggccatc ggagccggcc 240
 tggccgcgcc gcgcgccacc gaggcctcct gcggtctctc cgcgcccgcc tacgccatgg 300
 gctgcctgct ccacctcgcc gcctgggcgc tcgtttgccc cgtgccgtgc ccggactcgc 360
 gccgcgcgct gcaagcgcac c 381

<210> 51977
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-C10

 <400> 51977

 ctgcatcagg gataaaggat tcaattccag cctggatcaa gtactcagtg caggcccgag 60
 gagaaatacc atatgatggg atttattatg atcctcctga agaggtaaag tatgtgttca 120
 ggcattgcgc acctaaacga ccaaaatcat tgcggatata tgaaacacat gtcggaatga 180
 gtagcccgga accgaagata aacacatatg taaacttttag ggatgaagtc ctcccaagaa 240
 taaaaaaaact tggatacaat gcagtgcaaa taatggcaat ccaagagcac tcatattatg 300
 gaagctttgg ataccatgta actaattttt ttgcgccaag tagtcgtttt ggtaccccag 360
 aagaattgaa gtctttgatt gatagagcac atgagcttgg tttgctagtt ctcattggatg 420
 tg 422

<210> 51978
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-C11

<400> 51978

gtgtaggaaa aacaatgatc atcaaagaag ttcgtcaaat catgctggtg tttctacggt 60
agatgaacta gaagattggg ccatgggtaa gcctcagagt gtgcatgctt taaatgcgga 120
agaatttgag agaagtacag cagcagcagc atctgcagct gctatgaaag aggccatgga 180
taaagcagag gcaaagttca aacatgcaaa ggaggtacga gagagagagc gtgatgcgaa 240
gattaaaaat agagaacaac gggaacaaga tagtgtaaca aggtcgtatc cccagaatcg 300
tgaggacaaa gagagaaagg aaggactaga acaggaaaga gagatgaagc aaaatgagga 360
aagggaaga gagcaaggaa gacttgaaga ggaaagagaa cttgagcgac ttagaaa 417

<210> 51979

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C12

<400> 51979

atgtattatg caaaacattg tccacacatg ttataggctg aaatcggaac tattcgtgat 60
agtttttagac taaagaaggg cgactagcta caagtgcaga atcaactacc aaaactgc 118

<210> 51980

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A9

<400> 51980

caggatcact ggaaactatg gtgaacatcc tgatgacaaa tatgacagca ctgctggggc 60
tgtgataagc gatattacag tcaacgatgt tgttggcgtt aacattgggg ttgctggtat 120
attggaaggc attcagggcg acaatttcag caacatttgt ctagtgcaat gtttccgtca 180
gtgtgcaatc tgcacatcca tggaattggt cacttattga acggtattcc aactcggatga 240
tcccagaatc atgcgaacag ctcagaagca attgtagaca gacatccatt tgctacgatg 300
gaagcaattc ttcactgatg agcgtgcagt aaccaagaca taca 344

<210> 51981
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-H3

 <400> 51981

 ggccacttta gagcacaggg agtgcctctg aaaagaaagc taagggaatt tcctgtcagt 60
 gaggatgcgc ttcttcctgt tggcacaagc atcacagttc gtcactttgt tcctggacaa 120
 tttgttgatg tcaactggaat cacgaagggg aaagggtttg caggtgtaat gaaaagatat 180
 ggttttgggtg ggatgcctgc atcacatgga acatcttttg cgcacgcagc tgggtggtct 240
 actgggtcaaa gagatgctcc tggaagggtt ttcaaaaaca gaaaaatgcc tggacgcatg 300
 ggtggtgtgc aacgcacagt gaagaatgta tgggtctatc aaatagaccc aaccaggaac 360
 ttactgtatc tgaaaggcca gggtcctggg cctcaaggta agcttatatt cgtaaggat 420
 tcta 424

<210> 51982
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-H4

 <400> 51982

 ctgcattttg gatattgaat cagttgtttc tggaacgttt tgcagatcac cagcaagagg 60
 gaaatctcct aatgtttctc cagcaaattg tgaagcagca agccccaaga agcagagccc 120
 aaacaggagc ccatctgggt cacgctctcc tgatgcgaag cctgaataaa attgctatgc 180
 tgttaaagga ttgcagatgg agtcaggagc tcttcttttc ttaacatttg tcctctgttc 240
 tagtaccatc agtgtcttat cgcagtacga gattggatga tattaactat ctgtatcagc 300
 ttgtatcgat ggactccaag tggtgtcact cttgggtgtct agtgtgctga aagaccatt 360
 tacttttgct aaacttt 377

<210> 51983
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H5

<400> 51983

ggggcggtcc ctttttgcaa accaacacat acgccgaatc gagtcaatcg gcattcgggc 60
gtccccagtc caccggaaat aattgccttg atcagcaacg atggcgggag atccggccgc 120
cggggtcggc ggcaacgccc accccgcgtc ggggagcaag agctcccgtc cgtcgacgcg 180
gcaccgtcag ttccgcgacc gagccaaggt ccgagtcgac gacctacaag agatgttctg 240
cggcctccaa tccgctcgca aggagagccg ctccgccgac gccgctgtcc tcgaggagca 300
ggtcaccag atgtcccgcg agtggcggtg cgagctcagc gtcccatccc cggttcctc 360
tctccagaac tcgcagggga acaaccggga ggcttcggat ccaccgtcgg atacgctg 418

<210> 51984

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H6

<400> 51984

ggagagaagg aatccgatcc atccaagcca agccaaggca gagaagaaga agaggaggag 60
gaagaagcat cggcagcatg tcggagggga ctgccaactg cgtggacatc ctgatcgcca 120
tcatectgcc tccgctgggg gtgttctca agtacgggtg cggccaacgag ttctggatct 180
gcctctctct caccttcctc ggctacatcc ccggcatcat ctacgccatc tacgccatca 240
ccaagaacac ctagctagtc atccttgccg acgacgatcc atgtctctgt atctgtgtct 300
gttcatatgc ctgatgccga cttgtgctgg atgtagttgc ttgaattcag tcgtgttctc 360
gttttgctac cgtaccacc ccattgcatca tctgtcaccg cgacgcaata atcatagtaa 420
taacaagttc agatt 435

<210> 51985

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H7

<400> 51985

ctagtcaaga gaagagtcga ggaacaacct tgcattcgca gacggcgatc atggaggcgt 60
gagctactgc ggctgcttgt ctctcgaggt tctcctcgaa aggttagctt caacctgacc 120
gccagttggt ccgtagggcg tacaaggacg ctgagtgcgc atctactcac caagcctctg 180
ccgtggtgcg c 191

<210> 51986

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H8

<400> 51986

cccacgcgtc cgctaaaata tggatgagtg atacaacatg tgtgaacatg cttagacttg 60
gtaggtctag tttctttcgc ttttgtaagg gctttagaga ctgaggttta cttgaagata 120
caatacacat gtgtgttgag gaacaagtgg ccatgttttt gaacacagtg ggacagaacc 180
ttaggaatag gttggtggga acaaattatg gtagatctgg tgagactggt agtcgctact 240
tcaacaaagt gtttcgtgct attggagagc tacgagctga acttattagg ccaccatcat 300
tagagactcc atccaaaata gcatgaaatc caagatggga tccctacttt aagggtgtgat 360
attcagctat tcaatattct ctttcaagaa ttttactat ttaaaccat aagaccctta 420
attgtatttt ggcttgatt ggataaacat aggattgc 458

<210> 51987

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-H9

<400> 51987

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gtcactggag acattgtatt cgtcctccag cagaaggatc actccaaatt caaaagaaag 120
ggtgaagatc tcttctatga gcacaccttg tctctgaccg aagcactatg tgggttccaa 180
tttgttctta cacatctgga caacaggcag cttctcatca aatcagaccc tgggtgaagtt 240

gttaaacctg accaattcaa ggcgattaat gatgagggga tgccaattta ccagaggcct 300
 ttcattgaacg ggaagctgta catccatttc acggtggagt tccctgactc gttggcacca 360
 gagcagtgca aggctctcga gacagtactt ncaccaaagc cttcatccaa gctgacagac 420
 atggagatag atgaatg 437

<210> 51988
 <211> 226
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-A1

<400> 51988
 ctgcgccggc gctttccccc cgaccgaaa cggagtccgg atgcagttgc ttcgggcat 60
 ccggccgtca catcagccac acgccgncgc gccagtcgcc gcacgagggg gcccgatg 120
 ccgaagaaga tgggcgtgaa ctccaaggcg gaggcggtcc gcgaccgccg ctccgccgcg 180
 gaggccgacc gccgcgaccg ccaggagcgc gccaaaggagg agcagt 226

<210> 51989
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A11
 <400> 51989

gtactcggtc cggattcccc ctcgagcctg cagaaagggtg gttgttattg tgggtgatga 60
 tcttgatggt ctacttattg atgcaaagtc tggaaagaca gttcattcca taaaaggaca 120
 tcgggactac tcatttgcac cggcttgaac ccctgatggg caaacatttg ctaccggcaa 180
 ccaagacagg acatgccgaa tctgggacgt aaggaacctt tcaaaatccg tccatgtgtt 240
 aaggggtaac cttggagcca tc 262

<210> 51990
 <211> 233
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A12

<400> 51990

gtaagccatg gttcatttaa gctgctgctg tccctgggtt tctgcgtcgt ctgggtgcgt 60
ctgggtgtccc tctttatgga tgctgctgctc tattaaccat ctgtgggtttg tgtgtcatga 120
atcgtgggttg tggcttcggtt ggtttaatgg acctgttggtg tcctctgtgt tgtacccaaa 180
actcttctgc agcagtatgg cttgaatcct tatgaagttt gatatttgaa ctt 233

<210> 51991

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A4

<400> 51991

ttttaaaaca tacaaaaata cacaaaaaaa agcataattt aaaaaaaacc taggccccaa 60
a 61

<210> 51992

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A5

<400> 51992

ctgatctgcg tacacggtct ccctcttcct gtcagtagta gagtgcgagt gaggcgagcg 60
agtatgagac aaggggaaat ggggaaggga ggcgaaggga gcgatgcggc ggcggcgggc 120
ggcgaggttg aggagaacat ggcggcgttg ctggttgcca agaaccct caagatcatg 180
cccttcaagc tcccgcccggt cgcccttat gatgtccgctg tgcgcatgaa ggcagtgggg 240
atttgcgga gcgatgtgca ctacctcagg gagatgcgca tcgcgcaactt cgtggtgaag 300
gagccgatgg tgatcgggca cgagtgcgctg ggcgtggctg aggaggtggg cgccggcgctg 360
atgcacctgt ccgtgggcga ccgctggtggc 390

<210> 51993

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-H11

<400> 51993

cccacgcgtc cgggttggtg tggataaaag gactggatct gctggtggaa ctggcgggca 60
agtaggtggt cgagacattg aacttttctc ctattgtgag tcatgcttgc ttccattcag 120
catacagtgc catgtcgggt atgttccctc aggtggaaga gtggttggtg taagcaagct 180
ttctagagta tctgatgtct ttgccaaagag attgcaaaac cctcaaagac tagctaata 240
aatctgtggt gcactgcatg ctagcattca acctgctggt gtggctggtg ctctgcagtg 300
ctggcacatt cctttaccag aaaacttggg atgcaagact ntggaagggt ggattagaac 360
ttcacattca tctcgtctcg gagtctttga aggtgaaaag cagcactctc tggagtgact 420
tcttggtctc tg 432

<210> 51994
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-A6

<400> 51994

tgatctgata ttaacgggac accaggaaaa tgcagaattt gcgcttgcca tgtgtccgctc 60
agaaccatat gtctgtcag gaggaagga caaatttggt gtcttggtga gcatccaaga 120
ccacatatct gcccttgggg attcctcgtc ttctcccgga gcatctggca gcaagcagtc 180
tggcaaaatt gcaaatgaaa aggagagtcc taaagttgat cctagaggta tattccatgg 240
ccatgacagt actgttgaag atgttcagtt ctgcccttcc agtgcgagag agttttgtag 300
tgtgggtgat gatgcttgtc ttattctgtg ggatgctcga actggcactg acccagctgt 360
taagggtgag aaagctcaca gtggagatgt tcattgtgtt gattggaatc cccttgatgt 420
taactatatt t 431

<210> 51995
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-006-Q1-K1-A8

<400> 51995

ccgacgcgtc cgcgaagggg catggctctg gtcagattgg cgtttcccggt gttcgtgttc 60
ctcgcagcgg cggagttcgc ggcggggacg cggtcgccgt cggctttcgt acaaaacgcc 120
atctactcca accgcatcac catcttctcc aagacttact gcccctactc catgcgtgct 180
aagcacatat ttcgagacct taaggaagat ccatatgttg ttgaactaga tacccgagtg 240
gatgggcgtg acattcaaag tggttctcctg gacctagttg ggcgtcgtac tgtgccacag 300
gtgtttgtca atggacagca tattggtggc tcagacgata cagtaaatgc gctttcaaata 360
ggacagctcc agaaacttct cgggaagagt cagtcacaat gatgggtcgc tggacaagct 420
ngcactgtca agaac 435

<210> 51996
<211> 237
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-F6

<400> 51996

tcgccttctc tcgcgagaac cgagaggcta gtaccgcac cagtggntgg ggcttcggta 60
tggggcgga gccaatggcg ccctgggcga acgccgctat aggcgtagga aaccctaaa 120
ttacgacggt cgatgactgt tgaagatgtn gccgacgccg acttcggata ccggaggaaa 180
gcccgaagca gctgaaggtc ttccgctgca actggaagga tcccgccgga aggtgtt 237

<210> 51997
<211> 234
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F7

<400> 51997

gaatacccgga cccgaccac tcatacgact ggataaccat atctacaata tttcctttaa 60
cactgtatcc tttaatccaa gggcgagatc taatacacac aaggcatcgc ctacttaac 120

atagataaat tcacttaatg catctaatac ttaaaacttg aatgtttatc atgaattact 180
caataaacta ttaaatgaaa aaaatatcta ttaaatttac aaataacact tata 234

<210> 51998
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F8

<400> 51998

cccacgcgtc cgcctcaagg agacatcctt actaatccac aataccactg gaaggagttc 60
aggttcacat tcaaggaacc tgccaaggat gctgaggact tctgccgcat gctgggttggg 120
ttagaggaag agggtttgca gaccgtgaag agctgtagcg gttacggttg acaaccact 180
tgcaagggtc acattcaagg aaccagccaa ggatgctgag gactctgccg catgctgggtt 240
cgattagagg gatthttgcag cgcgtgaaga gctatagcgg tctaggtgac agctcacttg 300
ccacaaaacc agtgagaaac tatatatccg ttattttgga actttgaaat atgggttttag 360
attgctatgt tttattcgaa gatctatggc ttctcgaatt 400

<210> 51999
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F9

<400> 51999

gaacatthttg atagtgttag cgaggacgat caacaatctg atggtaacat atctgacact 60
ctagcggaat ctgacagtga tgatgtcatg cataattcaa agcgtataag gttatacgag 120
gtcaaggatg aacaccatgc ggaagcattt ttgaacagcg tctctttatc aaacgaggat 180
gctgttcccc ttgaggatag gatagctgcc ctggaaagga aacagaactc caaagcactt 240
gatgcggtca agtacgggcc tgggtggctca cgagagattt cgtttttctc taaaagccgt 300
agaaggcaca aggaagagtc gtctagcgac gatgaacca aggggtgtcaa aaagagagct 360
gtgcagccgc tgggcttgaa gcagggaaaa gccgagttct aatatgttgg cggaaatcgt 420
ggcaaaagta gaaggcgtgg tg 442

<210> 52000
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G1

 <400> 52000

 gcttcagttg ctaagacaat gaaaaatatt gcttcaaacc ctgatgcctt caatcaatgg 60
 ttgaggtgga agtatgatgg tccatccgat tctttcaaag ctcttattga catggcagcg 120
 gttcattcat cttgtogtct ttgtatacat attgctacca agatccattt aaaggaggaa 180
 aggactccaa aatttacaaa tcgtccttgt agctgttcca ccaaaaaggg aacaatttac 240
 cacttattta tccgagagag agggcggttt aagtcagaga gcatttacat gagatcaggc 300
 cagttaactc tgggagcctt ggaatccgc 329

<210> 52001
 <211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G11

 <400> 52001

 aattcccgtg cgaccacgcg tacgcgatgc ttttcacgac gaagagcttg ctttcagggg 60
 cagccctacc ggaaggcacc aggttcaggg gccactgctt tccatgatccg cataggttcg 120
 cgctacgggc atacgcagac tccatccctt tcagatacag ccagcttgac gcgacccata 180
 ggataaaacc gatccctcta gggccaaga aggcggagca agtctctgac aactacggg 240
 catgcgaggg cgagttctcg gacgcttatg cctgcgccat c 281

<210> 52002
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-G12

 <400> 52002

 attgaatgag attacatcac tgtttttttt ttagcgatat gttgagctca tgtgctcgtt 60

tatgttagtc gatctctggc tctttagtagta acttggaaaag cttgctgnct ttttttaagg 120
gcatacatgc ctgtgatgtg tggatcatgat catttttttc tctgtttatt ttagttgtcg 180
tatcataaat gccatgtttg cattggtggt ccaacatgtc aatattattg aataaatggt 240
tgcattggcg gcagcgggga cgacgctaag tcgagcaatg gogaagcggc ccgtggtggc 300
agtaacggtg gagagaagca gggggatgaa tccaacggtg gcgggatact tagcgctgtg 360
gcttccagga ttggcgtggt cgtgtccagc gccaacgggg accgcagcgg cagcgc 416

<210> 52003

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G2

<400> 52003

cttccccgtc gcgattogca ttgcccttcc ctcggtttct acccccagcc tcgcgccggc 60
gccgccgccg ccgcccttgc cagagagatc acccccatt cccacaatcc cgtccctccc 120
tccgtccctc gaggagccga gccctccgcg cggccgtggg atggggcagt gaccggtgag 180
tggcgtgggg agccggtggg cgggtggcgag ggcatatcat ggtgcagtgc ctggacgggg 240
tgaggcagct gctcgcggtc ctgctcaatt gctgcgacgt cgagctcaag cagccgcggg 300
ggctccaaga cccccaggtc ctcgcgaggg agaccgtctt cagcgtgagt gaggtcgagg 360
cgctgtacga gcttggttaag aggatcagca acgccgtcat tgatgatggg ctgattaaca 420
aggaggaatt tcagttg 437

<210> 52004

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G3

<400> 52004

gacgagtcgt ccgtcccagg ctcccagccc cggcgccccg tctcaaatca aaaaaattgg 60
gctcaaatct caaacccata aaaaatactg tattttccaa ccaagccact cgcccgacct 120
tcatccgcat tccacgcgca ctccgtgcc tcaactccgag actccgccgc tgcttccaac 180

ttccggttgcg caccgagcgaa acatccggag ctagcaaggg aggaggagga ggaggcgatg 240
 gcgggggggcg gggataaggt ggactacgtc ttcaaggtgg tgctcatcgg cgactccgct 300
 gtcgggcaagt cgcagatcct tgcgcgcttc gcccgcacg agtttagcct cgactcgaag 360
 gccaccattg gggtcgagtt ccagactcgg acgctcgtca tcgaacacaa gtccgctc 417

<210> 52005

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G4

<400> 52005

ctcatctgcg tacacggtct ccctcttctt gtcagtagta gaggtagagt gaggcagggg 60
 gtaggagaca aggggaaatg gggaagggag cgcaagggag cgatgcggcg gcggcggggcg 120
 gcgaggtgga ggagaacatg gcggcggtggc tgggttgccaa gaacaccctc aagatcatgc 180
 ccttcaagct cccgaccgtc ggcccttatg atgtccgctg gcgcatgaag gcagtgggga 240
 tttgcggcag cgatgtgcac tacctcacgg agatgcgcat cgcgcacttc gtggtgaatg 300
 agccgatggt gatcgggcac gagtgctcag gcgtggtcga agaagtgggc tccggcggtga 360
 tgcacctgtc cgtggggcgac cgcgtggagc tggagccggg cg 402

<210> 52006

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G5

<400> 52006

cccacgcgtc cgaaaaaaaa aaaataaatt taaaaaaaaa aaaaaaaaaa aaaaaagaaa 60
 agaaaaaaaa aaaaaaaaaa aaaaaaaggg gggccgccct tttggatcca cccttctttc 120
 ctctctcttc ctccgactta attcttcttt tatggtgccca cattactttt atttgotggc 180
 cgtttttcaa catcgtcact gctgaaaccc tctgtttgcc cccctaatta accttgtttgc 240
 acatcatcct tttttcacct ggtgtcgtat taacaaagcc ccccccaatg atctttctta 300
 ccaacagttc cgcactcttg gtgactattg cgccccctct ttttgc 346

<210> 52007
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G7

 <400> 52007

 aaaaaacaaa aaaaaactaa aaaaataaat ttaaaaaaaaa aaataaaaaa aaaaggggag 60
 gattataaaa cggcggccgc tttctagatt ccaacattta cttccacttg catgccattt 120
 attagctttt ctctcgact cccttaattc actccactac tccaccgttt ataacatctt 180
 cccttgcaaa ccctctgtgt atcccaactt attcacttat caggatattc cttttttgcc 240
 agctggcgta aatacgatga gtcacctacc aaacgtcctt ctcacagtt act 293

<210> 52008
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-G8

 <400> 52008

 ggactggggc gccatccgc ggctcctctc ctccgctgc ctcttctct gctccggagg 60
 ctgttttggg tgctgcgata agactgtaaa gcaactgggt gaactgtcca gaaacttgat 120
 caccaggac caaattacca ttggagagcc attttggagc acaaccacca tcgaggttga 180
 accagcagat ctcaagtggg ttacttcagt caatacatct aacttggcct ctggaactgg 240
 tagcagtcac aaccttctg gacttggtta taatggactt gttctgtggg aacatacaag 300
 gcaggagtgg actgaaacta gaagtctgcg gctgaagggt aagcatgttc gtgaaccagt 360
 attgagttgg aatgcagcat atgagagtct gcttggatca aataagccat tttctcaacc 420
 cattcctctt catgagatg 439

<210> 52009
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-G9

<400> 52009

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aaggagcttc agactcataa acacatccca tacagggaga acaaaaatct gactggaaca 120
gcacgttatg ctagtgtgaa tactcatctt ggaatagaac aaagcaggag agatgatctg 180
gagtctgttg gctatcttct gctatatttt ttaagaggaa gcctcccatg gcagggcctt 240
aaagctggca ctaagaaaca aaagtatgat aaaattagtg aaaagaaaat gcttacctcg 300
gcagagattc tgtgcaaadc ttaccgcgcg gagttcgtct catatttcca ctattgtcgc 360
tccctgcgat ttgaagacag gccagattac tcttcaatga agaagctctn tcgtgatgta 420
tntatacggg aaggataccc aattgattac gtattt 456

<210> 52010

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-H10

<400> 52010

gtcgcgcgcc gctgcgttga gccaaggcgc aatggcaacc tccacctcag ttcccgtcct 60
cctgggcctc gccgcgcgcg ccggcctcct cctgctcccc ggctcgtcgg cgtggcagag 120
cagcaactgt gcaccgggag cgcccggcag tggctcgcgc acgtggcctt caccggctc 180
cggctccggc ggcgggccaca gcaagccgcc caagcaccac catggcaagc cgccaagtg 240
cccgcctgct aaccctccgt acgtgcctcc gacgcctcgg ccgtcaccgc cgtacgtgcc 300
accgtatgct ccgccgacgc ctcgccgctc accgccctac gtgccaccat acgtccccgt 360
cccgccgacg cctcgccctt caccgncgta cgtgccacca tacgtccccg tcccccgac 420
gcctcggccc tcaccgncct acgtgccacc atacg 455

<210> 52011

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-F5

<400> 52011

gataattcca ataatgcaaa agaggccccga tttcggtttt gtaagtttcc tggagtctga 60
gtccgtaaaa cagatcttat cagaaagggg ccctcatttc atctgtggaa atgaagttca 120
tgtcaaagca tacagggaaa agcatgaatt ggagtacatg atgttaactg agaaagatat 180
ccattgtaac tgcggtgtac gcgatgtgtc agatgtgggc gatttgcaat tttgccacca 240
ttggcagtgg acttcgctaa tttgctatcg gacacacaaa tcatagacac ataccggacc 300
cacaaatcat agacacttgg ggggtggcgac attgcaaata tttcgtcaga tgtagatgca 360
gttggtgagc atcatacagt gactattggg gactntgggc ttcagacgac cttggaattt 420
gactactgag actctgag 438

<210> 52012

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D9

<400> 52012

cagcgcacca acaggtgagc ttccgcgggc ttatcatgga gaccaaggac acgtgtctgc 60
gccttacgtc gtcctgtggg ctccagccga gtcccagacc gcaggaagtc agcaaccgac 120
acgcactcag gcacaggtat cttacagctc gtatgcttac ccaccgccgc catgggcgtc 180
acaggacagc accgaatcga acccttttgt agcggcagca tcgtcatctc agcaatacca 240
gtccacttcg agaacccta ccatgccacc gaacttgagg cctctactac agcagtcgca 300
ttcttttgga gtaccacttc caaccgcgag tctggactcg ccaataaatg ggaacctgaa 360
gcaaccgctg tctgtggggg ctgcgatgcc atcttatgtt tcttccaaca agttcttcga 420
cgacttgttt gagaggaact cggat 445

<210> 52013

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E1

<400> 52013

aaaaaaca aa caaacacaaa aaaaaaaaaat ttaatacaac aaaaaaaaaaac aaaaaaaaaa 60
gaaagaataa aaaaaaaaaa aaatacaaac aaactaaaac acaatccaaa atacataact 120
catcaaaacc tacaccctcc tcttcatatt tccctttctac atccccacaa ttaatccatt 180
taccttctct atatcaatcc ttttaattcc aaaaaccctt cctatcccca acttcttcta 240
ctttgacaaa atcccccttt ctccaatttt cttattaccc aatatctccc cccttatccc 300
cctttccaaa attttttcat cctcattgct tttttctatc ccccccttt 349

<210> 52014

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E10

<400> 52014

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gcacgagacc aacctcgcca agcgcgccgc ccgagaggcc aaggatgcgc ccgcgcagcc 120
ccagcccaac aagcgcaagc ttgccccccg caagtctgtt aagattggca gaccgggta 180
taaagtaacc aaacaatatg atcctgagac gaagcaacac tcgtttctct ttgagattgg 240
ttaccctgaa attgaagata attgcaagcc aaggcaccgc ttcatgtcat catatgaaca 300
gaaagtccaa agttgggata agaggtatca atacctactt tttgctgcag acccctatga 360
aatcattgca ttcaagatac caagtacaga gattgacaaa tcagcgagca aattcttctc 420
ttactgggat cctgacaaga aggaatacct gc 452

<210> 52015

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E11

<400> 52015

cggacgcgtg ggcggacgcg tgggggtgcgc agccgcagcc gcagccgctg cttttcgtgc 60
gtctgcatcc tacgcgaggg cgaaaccac aaaccctctc cctcccgtac tccggcctac 120

acatccaggg gcgatgacgc tgggtagctc cggcgcgga tcgagcgtcg tcgttccccg 180
aaacttcagg ctattagagg agctcgagcg tggagagaag ggcattgggtg atggaacagt 240
gagctatgga atggatgatg ccgatgacat ctacatgcgg acatggactg gtaccatcat 300
gggccctcac aataactgtac atgagggtcg ca 332

<210> 52016
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E2

<400> 52016

cccacgcgtc cgcccacgcg tccgctctac cttcaaaggg cgaaggcagc cgatctcaag 60
cccgattccc catctcgccc tgcccgccga agagcgcgca agcaccaccg tcccggcagc 120
gcgagatcg gtccactcca tccacgcggc gtcaggcgag cggggcgcac ggacgctgcg 180
accgatggat ctcaaggata gcctctccaa atttaagcaa cagcaggaga gatgccagtc 240
atcactggcg agcatagctg cttcgacctc aaagccaaag cacagggccc aaccagcgca 300
tgctcctaac gtcccagcaa gaccatcaca acctattaag ttttcaaatt 349

<210> 52017
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E3

<400> 52017

cccacgcgtc cggggcgctc ggcccgcacc agatccgccc ccccggtggcg ctccccctccg 60
tcgagtcgga ggtcgccgcc tcgtccgccc aggaccgcgc caaggacatc ctcgtcgctcg 120
tctccggcct cctcttcggc ttcggctgcg gcgcctcac cgcggcgctc atgtacctcg 180
tgtggtcgct cctcgctcc acctgcgcct ctggatacga cgacgacgtc tacagcgacg 240
acgaggaccg gctgtccgac tccgagagcc ccaagaatgc cggctacgtc atcatccacg 300
acgctgacga gtacggcgcc ggtaagaact agggctgggg atccgtcttc ggtctcgccc 360
ggggtcagca gaaggatttt cgtaatt 386

<210> 52018
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-E4

 <400> 52018

 gttacattgc cacgttctgt ttctcgggtc tcctatttca ctggttcact ccatctggag 60
 atgactgcgg actcaacctg tttttcattg tcttcacgtt gattcttggt tttgcgtttg 120
 ctattgttgc cctgcaccca aagatcaatg gaagcttggt gcctgcatca gttattggta 180
 tgtactgtac atatctgtgc tacagtggac tctccagtga gccaaaggat tacgaatgca 240
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<210> 52019
 <211> 492
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-E5

 <400> 52019

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 aggaccgcgc caaggacatc ctcgtcgtcg tctccggcct cctcttcggc ttcggctgcg 180
 gcgccctcac cgcggcgctc atgtacctcg tgtggctcgt cctcgccctc acctgcgcct 240
 ctggatacga cgacgacgtc tacagcgacg acgaggaccg gctgtacgac tccgagagcc 300
 ccaagaatgc cggctacgtg atcatccacg acgctgacga gtacggcgcc ggtaagaact 360
 agggctgggg atccgtcttc cgtctcgccg ggggtcagca taaggatttt cgtaataaca 420
 tttgcatgat tgcttggaat tgtgcagtat actgtatgca cctttttaat catgtgcgtc 480
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<210> 52020
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E6

<400> 52020

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tcttcatccg tcaaccatgg cgaccagat cagcaagaag aagaagttcg tcagcgacgg 120
tgttttctac gccgagctca atgagatgct gacgcgggag ctggcggagg acggctactc 180
tggcgtggag gtgcgcgtca cgccgatgcg cacggagatc atcatccgcg ccacgcgcac 240
gcagaacgtg ctcggcgaga agggccgtag gatcagggag ctcacctccg tcgtccagaa 300
gaggttcaac ttccctgaga atggcgttga gctttatgcc gagaaggctg tcaaccgtgg 360
gctctgtgcc atcgcgcagg ccgagtcctt ccgttacaag ctctcgggtg gccttgccgt 420
ccgcaggggt tgctacgggt ttcttcgtta tgttatggag ag 462

<210> 52021

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-E7

<400> 52021

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gggcatttat gtcttcaaga aagatgcact tttagacctt ctcaagtcaa aatatattca 120
attacatgac tttggatctg aaatcctccc aagagctgta ctagatcata gtgtgcaggc 180
atgcattttt acgggctatt gggaggatgt tggaacaatc aaatcattct ttgatgcaaa 240
cttggccctc actgagcagc cttccaagtt tgatttttat gatccaaaaa cacctttctt 300
cactgcaccc cgatgcttgc ctncgacgca attggacaag tgcaagatga aagatgcatt 360
tatctcagat ggttgcttac tgagagaatg caacatcgag cattctgtga ttggagtctg 420
ctcacgtgtc agctctggat gtgaactc 448

<210> 52022

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E9

<400> 52022

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accaggagcc ccaggacgaa gaggacgacg ataccgcagg cgttgtcaag ctcatcagcg 120
ccgaggggctt cgaattcggtt gttgacagga aggcgcgcat ggtctccaac accctccgca 180
acatgctcac atccccaggc ggcttctctg agacgcgcca gggcgaggtc cgcttcccag 240
agatccccac caacatcctc gagaagatct gccagtattt ctattggctg ctccattact 300
ccagtgggaa ggagaccacc gaagtttcaa atcgaaccgg agataaccct ggagcttatg 360
at 362

<210> 52023

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F1

<400> 52023

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cgagtatgat gaggagatct caggctatcc aagggacaat tctgagttca gcccataca 120
gatgatgggt gatgtgagcc acgatgagga tgctgaaagg gatgagggcg aggaggatgg 180
agaggactat gaaactgacg atcctgctgg tgatgaggat gatgacgttg agatggattg 240
ggatgatgac attcgggaca acgatgatgg taatggagca gccaacgcag atgaggatga 300
atgtggtaca tcatcatatt cttcacagta tcgtgagtga tgagagtgga ttgaagatgc 360
gcaggtttg 369

<210> 52024

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F10

<400> 52024

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gtacaagata tacgtctgat gaatggggaa gccatccatg caacaccaag gaagacaggg 120

attatagttc ttggtggagg ccttccaaag catcatatat gcaatgccaa tatgttccgc 180
aatggtgcag attatgctgt gtatattaac acggctcaag agtttgatgg tagcgattct 240
ggagcacacc ccgatgaagc agtctcatgg ggcaagatta agggttcagc aaaacctgta 300
aaggtgcatt gcgatgcaag tatcgctttc ccgcttcttg ttgcagcaac attgcacgt 360
aaggttcata actccaaatg aacagactga atgggattcg gtggagtga tgggcaacag 420
aattttgttg aactcttcaa atgacctttt gga 453

<210> 52025
<211> 449
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-F4
<400> 52025

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aaagctgaga gccgcactgg aagacatggg ataccgagac ggagacacca tgttcggagc 120
cccctacgac ttccgctacg cgccgccgtc ccccggccag acgtccgagg tgtactcccg 180
ctacttcaag gagctgatgg agctggtcga ggccgcgagc gagaggaccc ggaagaaggc 240
cgtcatcctc ggccacagct tcggcgcat ggtcgcgctc gagttcgtcc ggaacactcc 300
gncggcgtgg cggcgcgagc acatcgagcg cctcgtcctg gtcgcgccga cgcttcccg 360
cgggttcctg gagccggtgc gcaacttcgc gtncgggacg gacatcctct acgtgccagc 420
gacgacgccg gttgccacgc gagccatgt 449

<210> 52026
<211> 161
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-005-Q1-K1-D7
<400> 52026

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa 60
gaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaataa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa a 161

<210> 52027
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C2

<400> 52027

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atgtataacc ctgctgggtg tatatttctt tgtgatgtgg taagtgagac catagacttg 120
tgttttttag ccttcttatt gagtgtgctt tgagtatgtc gaagatgaac acttgtagtt 180
ctgaatctta acacatccaa catgtaagag tgtgtttact tcgaaatcta aaacgaaaaa 240
atttctaata aatacctact aaagcatttg ggatgctctt gcacacctaa acttacttac 300
ccaaaccact taagtaaata gatttggtc 329

<210> 52028
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C3

<400> 52028

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cctgcctcct ccctccaccg gcacccccaa agccgccacc gccgccagct actgcctctc 120
ccgtaccgcc gccgccatcg tacgagcagg ccgtaggggt ggggtggtggc cgaaggagg 180
aggatgacga cgagggcgcc ggggcggtga tacgggcaca cctgctctct gacttcaagg 240
ccgcggtgcy tgcaggaaaa gtactggtgt ccgaccgctc gtctggaaaag ttgaagggca 300
agctttgaaa atgtcatcca ctgtgccgaa gtcataaat atcttctggc atgattgcct 360
agttggcaag actgatcgcc agaagctact caaccagaaa ggctgtgttg tctggatcac 420
aggccttaag ggctcaggta aaagtacctt ggcattg 457

<210> 52029
<211> 275
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C4

<400> 52029

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caccctccga gtgagcaact tctcaggta gctgtcgtct atctacttct cgcagcacag 180

cgggggcgag tgggttgaag cttgcgatct ggagttcatc tctgggaaca aagcgatcat 240

ctactcgtcc aggaacgggc acgcgaacta ccccc 275

<210> 52030

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C6

<400> 52030

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ttgacaagaa ccttgacaac caccataacc tcatgaaatt cttccaaagc tcagccccc 120

aggctatgct gtttttgaac ttctccaccg gaccttttga ttctttcaag tctgcctact 180

ctgctgccgc ggaggaattc aaggacaagg aaatcaagtt ccttattggt gacatcgaag 240

ccagccaggg tgccttccag tactttggcc tgaaagagga ccagacaccc cttatcctca 300

tccaggatgg tgactccaag aagttcttga aagttcacgt tgaagctgac caaatcgtcg 360

cttggttgaa agagtacttt gatggcaa at tgacg 395

<210> 52031

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C7

<400> 52031

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catgatcttg atcttatctg tegtgtcac caggttgctg aggatgggta tgaatttttt 120

gctgacagac agcttgtcac catattctcg gcccccaatt attgtggtga atttgataat 180
gctggtgcaa tgatgagtggt cgatgaaact ttgatgtgct cattccaaat tctgaaacct 240
gctgagagaa aaaacaaatt tatgggggtcc aacaaaatgt gatagtgaaa gccattttgc 300
ttccagcagc tctagcctgt taaggttctc ctgtggatgc atcgagacaa cagcatgctg 360
gcgccaagtt tgagggcagc attgggctac tatcagagaa accaaataat ccataccta 420
actgttcac tcggaagttac tcacatgac 450

<210> 52032
<211> 429
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-005-Q1-K1-C8

<400> 52032
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gccgacaact acatgttgcg tttgttctgc atcggttca ccaagaggcg cccaaaccaa 120
gtcaagagaa cctgctatgc tcaggcatcc gagatccgtt agatccgccg taagatggtt 180
gagattatga tcaaccaggc ttctacatgt gacctgaaag aacttgtttc gaagctcatt 240
ccagaagtta ttggttaagga gattgagaag tctacctaca gcattctccc acttcaaaac 300
gtattcatcc gcaagggtgaa gatactcatg gcccccaagt tcgatcttgg gaaactcatg 360
gaggttcatg gcgactacaa tgaggatgtc ggtgtgaagc ctgagaggcc tgtcgaggga 420
gatgaggct 429

<210> 52033
<211> 450
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-005-Q1-K1-D10

<400> 52033
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tttcaatatt attgatgtta agcctacaaa catggaagat ctactgagg tgataacatc 120
tgctgaattc catcctactc attgcaatac attggcgtat agtagctcta agggctccat 180

tcgacttggt gatctgcggc aatcagccct ttgcgacaat cattcccaaa tctttgagca 240
gcatgaggcc ccaggttcaa gatcattttt cactgagatt atagcttcaa ttccggacat 300
aaaatttttcg aaggatggga ggcatattct cagtcgtgac tacatgactc tgaagctttg 360
ggatgttaag atgaattctg gtccctgttg aacattccag gttcatgagt atctaaggcc 420
taagttatgt gatttatatg aaaatgactc 450

<210> 52034
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D12

<400> 52034

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gcggcgcggg ccggccgccc ggcgaggtgc gcgtagctgc cgtcgattgt cgccggatcc 120
atccaccatg ggcggtggca acggccagaa gtccaagatg gcccgcgagc gcaacttgga 180
gaagaacaag ggggccaagg ggagccagct cgagaccaac aagaaggcca tgagcatcca 240
gtgcaaagtg tgcattgcaa cattcatgtg taccacgact gaagtgaagt gccgggagca 300
cgccgaggcc aagcatccca agacagacgt gtaccagtgc ttcccccatc tgaagaagtg 360
aaaggcctga acttagcaac cagtgtctgt ttggtcacta cgatcgggcc agggggcggt 420
ccttgtgttg aggggtgttca ttccgtgtta tc 452

<210> 52035
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-D2

<400> 52035

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gctggaggga aggcgaagaa gggagcggcc ggtcgcaagg ccggcgggcc gaggaagaag 120
tcggtgacga ggtccgtgaa ggccgggctc cagttccccg tcggccgcat cgggcgctac 180
ctcaagaagg gccgctacgc gcagcgctc ggcagcggtg ccccgctcta cctcgcggcc 240

gtcctggagt acctcgccgc tgaggctcctg gagctcgccg gcaacgctgc caaggacaac 300
aagaagacgc gcatcgctcc ggcgcacgtg ctgctggcga tccgcaacga cgaggagctc 360
gggaagctgc tgaccggcgt gaccatcngc cacggcggcg tg 402

<210> 52036
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D3

<400> 52036

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taatggcggc cgaggagggt gccgtgatcg cgtgccacac caaggacgag ttcgacgccc 120
gcatggccaa ggccaaggag cagggaagc tgggtggcat cgacttcacg gccccctggt 180
gcagtgggtg ccagatgatg gcccgggtgt acgcggaact cgccagcaag tacccttccg 240
cggctcttct cgaggctcac gtggacgaac tgctggaagt cgcaagatc tacggcgctc 300
atgtgatgcc gaccttctgc ttcacagga acggcgagac gctcgagagc tttgctaccg 360
tcgacgagga cgagctccgg gacgccgtca ggaagtacgc cgtcgctggc actacgacgg 420
ctcctgccct cgcgttcgcc taattcagga gatgtgatgt g 461

<210> 52037
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D4

<400> 52037

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gaaaaatttc cgggatttat tcatccgtga aggttaccag cttgattatg tatttgattg 120
gactgtgtca aggcaagctg tggacaataa cagattgcga ctgagcggga agacaggtgg 180
cttggtgagg ccatctgtgg atagggtga acgagctgca gcaagacaag atgttccaga 240
tagattcact ggtcaagctg gtgcttttgc tagaagaacc ggctctgggt ctggtcaata 300
cggagaacac acaaagcaca ggactctgtt ggattcactt atggcatcca agatggctgt 360

tgattcagat aaaaagaaag cattcatcat ctcggaatgg aagcaca

407

<210> 52038
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D5

<400> 52038

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tttttttttt atattttatt ttttattttt tttttttttt ttttttttta tttttatatt 120
ttttattttt attaaaaaaa aacctagcca aaattaccac taaaaatcaa aaatcccact 180
ttttaaaaaa aaattatttt ttaactaaaa acttaccaaa aagaccaact taattttaaa 240
aacttaattc caatttcctt actcaaaacta aaaacccaat accttcttta actaaaactc 300
ttatacaaag atttaacact ataactactt caaataattt accctag 347

<210> 52039
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-D6

<400> 52039

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ggagatcgtc gacttcacg gcgagatggt cttgctggag aactacagcg cgctcaacta 120
caccggtgag acgcatctca ctagggatga gagagttttt atttttattt caaaaagata 180
gagaggggaa aaacaatcgt gcagcgtag atttcaagat tcattctaaa cgtactgaca 240
tagagcaatg gatgctctgg gttaaccagg gctgggtcaag attctcaagg agtacgacaa 300
gaggaccggc gcgctgatcc gtctgctc 328

<210> 52040
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C12

<400> 52040

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gctcctataa tacgcgctat ggacaaactc atctgagcgt cctccgctcc cgggactggc 180

tccgccctca ggccggtggc agtcgccggc ggctccgcg gctacaacac cggcgctccg 240

ctccgacgct acgagggggc cgagtcggaa gacgatagcg tccgcgagta cgatgggcgg 300

cacaagcggc cgggactacg ctgtgccag cctgttctca gatattttcc gtgatccgct 360

tagtgcgccg cacagcattg gcc 383

<210> 52041

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-A8

<400> 52041

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caaggccaag gagcagggca agctggtggt catcgacttc atggccccct ggtgcagtgg 180

gtgccagatg atggccccgg tgtacgcgga ctgcgccagc aagtaccctt ccgcggtctt 240

cctcgaggtc gacgtggacg aactgctgga agtcgcgaag atctacggcg tccatgtgat 300

gccgaccttc tgcttcatca ggaacggcga gacgctcgag agctttgcta ccgctcgacga 360

ggacgagctc cgggacgccg tcaggaagta cggcncgct ggcaactacga cggctcctgc 420

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<210> 52042

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A9

<400> 52042

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tccatgggcc tagctttggc tgtggatgct gaagacgaag cgcacatggg tggtcattca 120
tcgtgaatgt taataaaaga aatcgatcac atgcagtact tgtatctaga gttcttccta 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaagacaa 229

<210> 52043
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B1

<400> 52043

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catgtacgcc aagcgcgcct tcgtgcactg gtacgtcggg gaggggatgg aggagggcga 180
gttctccgag gctcgtgagg atctggcggc gcttgagaag gactacgagg aggtcgggtgc 240
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cggcgtcgtc gggcttgtgt gccactgcta tcctgtgatc tgccctgagt ggctcctatc 360
gtgttatgtt tctgtcgggt cttatctatc tgtcgttgtg tggtttacia cttacgttgt 420
aagactttat tccccgctt tgctact 447

<210> 52044
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B11

<400> 52044

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atcaccaacc ataacaccgc ccaaaccctt acctcgtacg gtatatccat cctcaaatgc 120
taagcaagct ctcaacgaca tcgcttcgct tgatattgct cttgtgagta acatattcag 180
ctt 183

<210> 52045

<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-B2

<400> 52045

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caccttttct ttctcgttca atgagtgtgtg ttgggcggtt ggggaatgaa ccatctgccca 180
atgtccttag ttctgttccc cgttcacgaa catatcgcaa tgccatgatg gagaaaagtt 240
ctggtggtgg aagctgtttc acacatcagc aaggttcacg ggagcaagca gttgcaccat 300
ggcaatcgat gtttacatcg caacctttca ttcggccatc agagaccttg tcttggaag 360
aggaaacatt attgagatct gggtttacat ttggaactgt gaagcccagag tcaactgaacc 420
catatcangg cagagaagag aactcacagc aagcgagca 459

<210> 52046
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B3

<400> 52046

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agaatgacga gcagtccaag cagtttggtc atatgctgaa ctctaccttg actgccactg 180
agaggaccct ctgttgcatc ctggagaatt tccagaagga ggacggcgtc gaggtgccaa 240
aggcgctgca gccttatatg ggtggaatag agttccttcc tttcaagcaa cctttggatg 300
ccaacaagc tgctgactcc aaatcaaaca agtccaaatc aaagggaaat gctgcttgag 360
ttggacgaag aacagactgg aatgcaaagc cacgtgcagg ttgcaaattc ttatttatgt 420
taaattttgg ggcctatcag tacacagtac tcatagcatg ac 462

<210> 52047
<211> 385

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-005-Q1-K1-B4
 <400> 52047

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 gagctcattt ctgcccttgc aactgacatg agcacttcaa tctcccaatg tagcaactac 180
 tctggtgcat cagcaccctt acgctgcaat ggaaatgttg actgcatcaa tccagcgcat 240
 tgtatattct ccaatgagca atcacctgat tttcagaaat gctatcaggg tgaacaagat 300
 gttgattctt ctgctacatc gctaaacaat gagcccaatc agccaagtcc aacatcagtc 360
 cttgaagcat ctttctcaaa tgata 385

<210> 52048
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-005-Q1-K1-B6
 <400> 52048

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 ccgcccgaca ttgacaggat ttgtcgacac ggacatctcg aacggcaaga tatccctgag 120
 aagcctgacg gaccggtcgg tcgttgagag cttcggagcc gggggcaaga cctgcattct 180
 ctccagggtc taccgctcgc tggccatcgg caaggacgct cgcctctacg tgttcaacaa 240
 cgggagggcg caggtcaagg tgtcccgctc caccgctgg gagatgaaga agccggtcat 300
 gaacggggcc tgaagatctt gaataaatat atcacccatg catgacatat tggcgctga 360
 ggaatctttc cttnttttaa aaaacatatt ttagatgtcg tttattaaga gttgaattgt 420
 cataactaaag ggcgccccgt tatatgttac aatggt 456

<210> 52049
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B7

<400> 52049

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ggcctttcat gccctgttga agtggtcata cgttctatat aatagcagcc taaaaacagg 120
gagctaatta gtactggaag aattctttat agcgtccaga agcattcatc ttagatttcg 180
tatgggtccct tttattttcc tgggtacaatt tatcttctgg tggctgcagt tgatggattg 240
tcgtgtatcc ttagcttgca aaactgggta gtttccctaa tccttcacat catatctctg 300
gctcccgatg ctgtttctgc atcctaaatg gcagtagctt tgggaaccaa ctgcatgtct 360
ggatcagctc accatgttca gcattctttc gcttgatc 399

<210> 52050

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-005-Q1-K1-B8

<400> 52050

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cttctgcccc tccctctcgg caccgcctcc gccccctcat tctctctcgc gtcacccggc 120
ggaggctcga ggaaactgag gccgggagcg ccccgaaaga tattctccac ccagtcgccg 180
acaccctgc gcgcgcgaga gtaagtcgcc tccccgcgcg ccagtgcctt tcgtgatgat 240
atatttccag atccggtttg tccgacgcag atggtagggc tggagaggct gccgatgtgg 300
tattgaagag ggatttagat gcatgaattt tgtgttcgta acgtggattg gtgtggggtg 360
ggagaggctc ctttgccgga ttggccagggt taccattgta cctgtgtagc tnggcagttg 420
gttgactgtg tgacaacctt gagctatgtc atattacgaa a 461

<210> 52051

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C1

<400> 52051

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tcgcattcaa tctttggggc tcccggagcc gccggaggcg cgttttactg ttagccttac 120
tactcttact ccctgtagct ccacgtagaa gaaaccgatg tcctgctgct ggcaattttt 180
cttagtccaa aaaaaaaaaa aaaagaacaa aaaaaaaaaa aaaaaaatat aaaaaataga 240
taataaaagt atactaagat agcaaaactg tttaacatac cttaatacaa catatcaatt 300
tctgtggctc ccaatacatg aaaatgtagg ctggccggtt taa 343

<210> 52052
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-C10

<400> 52052
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gggcggagat cccggtgatc gacctgcgcc tcgccggctc gtcgcccgcac gagtcggcgc 120
ggctgcgcga cgcgtgcgag cgcttgggct gctttcgggt gaccggccac ggcgcgcccc 180
cggggctcct ggccgacatg aaggccgcgc tgcgcgcgct cttegacctc cccgacgacg 240
ccaagcgccg caacgccgac gtcacccccg gcagcggcta cgtcgcgccc tgccccgcca 300
accgctcta cgaggccttc gggctcctcg acgccgncgc gcccgccgac gtcgacgcct 360
tctgcgcgcg cctcgacgcg ccgnccaaag tcaggagac cgtcaagacc tacgcggagg 420
agatgcacga cgtgat 436

<210> 52053
<211> 557
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-C11

<400> 52053
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atgggcctgt gagtctggat nncgaaggcn ncctcgctcg tatgcgcacc agtgtctggc 120

aggaccgtca tcgcgttctt cggtagggccg ccttgcggcc cgagggcgct ccgcgcccct 180
agccccggtc ttccgcacgc ccgtcccgcg gngatcgtc gccactttcg cccgtcggct 240
tctttcgtcg cgcttccgct cgcgcgcgct tcaacttttt cgcgcgccgt cccgccactt 300
ggagccgann tggggcctcg tgccctgcag gggtaccta gcnagtacct tccccacgcc 360
cgccgcccga cgcgcgcctt agatcgattt tattcggagt ggctatccag tacgtacttt 420
agtagtagtg agaatttggg tcggtgctgt cgtgctgctg tcgcatttnt gggtcggatc 480
ttggtttcct ttggtgccag ggaggggttt ctattacca tgctcggggt gtcggtttgt 540
gtgaatctca tcccccc 557

<210> 52054
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A7

<400> 52054

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ctcaccacc cccgtcgcg cagaaggccg ccgcagctct tactactggg gccctaaacg 120
ccgatatccc tggtcgctc cctttcccca cccaaaaccc cggccttcag ggttcggca 180
ccatgccgca gggagatcac atcgagctgc accagaagcg ccatggcaag cgcttgacc 240
acgaagagcg caagcgcaag cgcgaggccc gcgaggtgca caggcgctcg aaggatgccc 300
gcaatttgat tgggtgctaag ggcaagaggg tcgccaagaa acgctatgct gagaaggcac 360
agatgaagaa gaccctgaaa atgcacgacg aatcaaataa acgacagaag gttgatgatg 420
atgt 424

<210> 52055
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H10

<400> 52055

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gcgacgcacc gccagtgcct gcgactcctc ctctctgtgg ccgccgccct cgccgccgtc 120
cctgctcgcg cggcgctggg cggcgggcgc ggcccgtgc tgggcgggtg gaacccgatc 180
cctgacgtga gcgactcgca catccaggag ctagggcgggt gggcgctggg gcaggcgaag 240
caccataagc tggccgccga cggctctgcg atacgccgcg tggagcgcg cgagcagcag 300
gtcgtgtccg ggatgaacta ccgactctac gtcgacgccg ccgacccgc cgccgcacc 360
gtgccctacg tcgccgtcgt gtacgagcag gtct 394

<210> 52056
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H11

<400> 52056
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gtgccgtcgg tgatgaccga cgccttcaga tgcaccaaga tggggaaggg caagacgatc 180
gtgctggggc tggggagggg cagcgacgag gtgtgcctgc cgctcgtgga gctgctgttc 240
gggaggtgcg tcatggggtc gctcttcggc gggctgaagc ccaagaccca catccccgtc 300
ctcgccaaga aatgcatgga caaggagctg cagctggacg cgctggtcac gcatgagctt 360
ggact 365

<210> 52057
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H3

<400> 52057
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cactccgccg cgccgcccc cgtccccgtt tcgcgacatg gccgattccc cgcgcaggag 120
gtactcaagg tccccctcat acagcagggg gcacccaaaa gggaggtcaa gatcacaatc 180
tccagctcgg tctcagtcta ggtcacctgt cctgatacct agatctcagg cgaggtaag 240

atctagaagc caagaaaagg aagaagatgc tgtaaccgg ggaataactc tgtatgtgac 300
 tgggctctct tcgaggggta ctgaaaggga tgtaaggat ttttttcta aacatggaaa 360
 ggtggttggt tgccatgttg gtcttgaacc ccatacacgt 400

<210> 52058
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H5

<400> 52058

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 gtgaaatgga acaaatacacc accaccacac cagcgaatcg caggactcct tctagcctga 180
 cgcataatcgg gtgaaatgga acaaagctcc acaaccacac cagctatcgc atgactcctt 240
 tgagccgaat gcatattggg cgggatctaa gaaacatgcg caaggagcaa cggacgttgc 300
 tgatgagaca acgccagcac gtggtcatgg tctgcatgtc gcgaccggga tgctcttcac 360
 gaggaagagc ttgcttcag ggacagccc 389

<210> 52059
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H7

<400> 52059

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 atcgaaggcc gacgccggag cgtccaagac ctaccgcgag caggctggca cgtccgtaa 120
 gaacggcttc atcgtcatca agaaccgccc ctgcaagggt gtggagggtt ctacctcaa 180
 gactggtaag catggccatg ccaaatacca ctttgttgcc atagacatat tcaacgggaa 240
 aaagctcgaa gatattgttc cttcgtcaca caactgtgat attccgcatg tgaaccgtac 300
 tgagtaccag ctgattgata tatcagagga tggatttggt agccttctta cttcagatgg 360
 caacactaag gatgatctta gactcccaac tgatgagact c 401

<210> 52060
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-H9

<400> 52060

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ggcgcccca ggaggccgc cgatcagctc acctagaatc cggctgaaag acggccggca 180
ccttgccctac agggaggaag gaggcgagc ggagaacgcc aggttcaaga tcgttttcat 240
ccatggcttc tctccacca aggagagcgg gttccccgtg tcccaggagc ttgtggagca 300
gctgggcata tacatgctct tcttcgacag agccgggtat ggcgacagcg acgccaaccc 360
gaagcgctgc ctcaagagcg acgccacgga cgtagc 395

<210> 52061
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-A1

<400> 52061

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cagcgcgctc tccggcacga tcccggcggt caagaactgc aggaggctgg tgtagctgta 120
cctggccggc aacggcttca ccgggcctat accggcgctc ctcggagact tacaggtgct 180
gacgtacatc gacctgtcca gcaacgccct caccggcggc attccgacgg agctccagaa 240
cctgaagctc gccctgctga atgtctcgta caaccagctc tccggccgcy tgccgccatc 300
tctgatcacc gagcttcccc cggtgttctt ccagggcaac ccggggctgt gcggccccgn 360
gttgccgaaa gactgcgacg ccgacgcgcc atcgcgagg cgtagggac tcgagc 415

<210> 52062
<211> 364
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A10

<400> 52062

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aaaataagac tagcctataa tagcttacct atcatagcta acttatttat tacaccttcg 180
aagaataata aaacttcac c aaatcgaatg acttcacctaa ctataacaac atatcccatt 240
acaaaaccta tatttcctcc tctattatac catcttcctt taaaagcatt cttcctatgc 300
caccagaat cataccacct ccatcaccta agatcattcc tacagcttca ccaaacttac 360
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<210> 52063

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A11

<400> 52063

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cagatcctga catgcttgag gtgggcaacg gcggcacgtc cgaggcggag taccgctctc 180
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gccaaaggctc gcagggaaag aaagtgcagt ccagcaatgg cttggagggt tgggctgggc 360
cgctcagcaa caacaggaag gccgtggttc tctggaaccg gcatggatac caggcaacca 420

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<210> 52064

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A12

<400> 52064

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tgagaaaaga gagggaggaa aagagagcgc agcgtgatcg gcttcgtcaa cgtgcagagg 180
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ccggtggagg tttccccggg ggtggcatgc ctgggggttt ccctgggggt ggcatgcctg 360
gaggtttccc tgggtggtgtt cccgtaatg ttgatatg 398

<210> 52065
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A2

<400> 52065

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gccacgggct gcgctcgcgg acgcgcgacc tgttcgcgcg ccccttccgc aagaagggt 120
acatcccgt caccacctac ctccgcacct acaagatcgg cgactacgtc gacgtcaagg 180
tgaacggcgc cgtccacaag gggatgccgc acaagttcta ccacggccgc accggtcgcg 240
tctggaacgt caccaagcgc gccatcggcg tcgagataaa caagcagggtg aatggtcgca 300
tcatcaggaa gcgtatccat gtccgcgtgg agcatgtgca gccatccgc tgacacagaag 360
agttccgcct gaggaagggtg aagaatgacc agctgaaggc ggatgcaaag gagcgcggcg 420
aggtcatcag caccaag 437

<210> 52066
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A5

<400> 52066

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tttctttggc gaagaatcca tattccatga tatatttgca ggaccgattc aagttgttga 120

tgaacatttc aatactgtac tcctgaactg ttatgatgca attggcataa tgcttatgat 180
cagaataatt catcagcacc agctcatcat gtttaagcgg cgaatcccat gtttggactc 240
ttacctagac aaagttaata tgtcactctg gcctcgcttc aagatgggtgt tcgacttgca 300
tttgaacagc ttgcgaaatg caaatattaa aacactttgg gaggatgatg tccatccaca 360
ctatgttaca aggagatatg ctgaatttac agcttctcta gttcatctca atgttgagca 420
tgggaaacggt cacctagatc taaaatttga g 451

<210> 52067
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-A6

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gagaagttcc agctggggac ggtgggggca ctacgctctc cggtggtgta ctacgtctcc 360
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gacaagc 427

<210> 52068
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G9

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tatgcacagg acagataaag tggacgaaca tccttctggg atgaggcaca ccgatgacat 240
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<210> 52069
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E7

<400> 52069

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 atgcctagca acattgatac aaccattcct ggcagcactg atgcagcaat gccatctgct 180
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 caagtctacg cagtgggtga tccgagtgcg gttggcattt gtgttgagag tgctatgatg 360
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<210> 52070
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F1

<400> 52070

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 ttgttatcat tacacatcta ttacatcct ttaaataaat acatccatta aactttgata 180
 aatgtatttg aaaacctgca gaagagaggt cattgatgag gatggttgggt tacatactgg 240
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tttcaagtta actcaaggag aatacatagc tccagagaag attgagaatg tctatgctaa 360
gtgcaagttc attgctcaat gctttatata 390

<210> 52071
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F10

<400> 52071

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acaggatcgg cgagagagtc gcggcgctcc agcagctagt gtcgccgttc ggaagacag 180
acacggcttc cgttctgcag gaggcctcgg ggtacatcag gttcctgcac cagcagctcc 240
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tcggagccgc tggctgtgcc tgggtg 385

<210> 52072
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F12

<400> 52072

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tctcgccgg agaccgcgaa gtccgccgct tccattccca cctcctcggc cgctctgcg 180
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ttccggtgct cctcatcgtc gccggagaac tctgccccgc gcgatcttgg attgcttctg 300
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<210> 52073

<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-F3

<400> 52073

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agcttctcct cagctccaac cccgtgctca agaagggtgcc cgtgctcatc caccacggca 180
agcccgctcg cgagtcccag atcatcgtgc agtacgtcga cgaggctttc cccgccgtcg 240
cacctaattt ccttccatcc gaccctacg accgcgccat tgctcgcttc tgggcctnct 300
acgtcgacga caagttctac agcgcgtgga taccctgtgt caggggc 347

<210> 52074
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F5

<400> 52074

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agctacagtt gaacagaatc atttgaagac agaaataatg tcaatatttg atgatttaac 180
ccaagatgat caagattcag tgcgtctgtt ggctgttgaa ggctgtgctg cccttggtaa 240
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ggataaatca tggcgtgttc gttatatggt tgccaatcaa ttatatgagc tctgtgaagc 360
tgttggccct gagcctacaa gagctgattt ggtgcctgcc tatgttc 407

<210> 52075
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F7

<400> 52075

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 acctccttcc tcaaattggct ggccttcctc gccgcagtgt atctcttgat attggatcgc 180
 acaaattgga agaccaacat gctgacagct ctcttggttc cttacatttt cttcaccttg 240
 cctaattgtgc tgttttctct gatcagagga gaggtgggga aatggattgc gattattgct 300
 gttattctgc gtctattctt tccacgacac ttcccagatt ggtagagct tcctggttcc 360
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<210> 52076
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-F9
 <400> 52076

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 agactgaaga gggcattcgg tctgggcgga gaagtagtag tgtgaatccc gtcacaatgt 180
 caccatggc atccccaga gccagtgggt caccaaaggg cgcttcctatt atcacagatg 240
 aattcaccta tgagcagttg caccatgctg cagggggcct tggggatgat aacctcgta 300
 agcatgggca ctccggtgac atgtactatg gtgtcctgga gagtggcttt caagttgtca 360
 taaaaaagat tgatctgaag accaagaaga atgccaaggc gnattgagct ttctta 416

<210> 52077
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-G1
 <400> 52077

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ttgggttcgg attgatacctt tccttgcgaa ggatgatggt ccgcttcttg aggagtgtgg 180
 ttggattgc aactaggatg tcagtgcatac agctccccca atctgcatat gcttgaagta 240
 tattttctgg tgtttgtccc catattcagt gtctgtagat aagagacatg aaatgtccca 300
 agtttctttt gatccatggt gaacctactt aatatctgag agatatactg ggggaaaatg 360
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<210> 52078
 <211> 293
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-G10

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 cagaagtaca tacatatttg aactgaagt ggttatttat gtcatagcga ttatgagtgc 180
 cacacattca ccagcttagt catctttaaa ccttgcttct agcccatggt atacttatgt 240
 ctccaggagc gtacagagga ctcatacttg gccgtgtag acgatgacat atg 293

<210> 52079
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G11

<400> 52079
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 ctttcagagt gtgccaagag aggcctttct gtcaaaccac agatgggaga tgcacttctt 120
 ttctggagca tgaaaccaga tgccaccctg gaccatttaa gtttgcattg ggggtgtcct 180
 gtgattagag gaaataaatg gtcgtcaacc aagtggatgc atatccacga gtacaaagct 240
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 gggctgtcta ctgggttgac acccatgtat gctttacaga cccactgaag ctgtattctt 360
 tgctcctttg ttggaggggg gagaattgca gataataagg gccataagc aaggg 415

<210> 52080
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G3

<400> 52080

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cggcagccca agaagaggtg gtggctatgg taggcggggg gatagcccag tgtaccggtc 180
acgtcctagt ccagactatg gtcgcccagc aagtcctgta tatggttcat atgacgggtcc 240
tggtcctgtt cgtgatcgct atcggagatc ttctgcttat cgatcaaagt ccccaactgc 300
gaaacgaaga gcatatgact aatcgagaac cctttgttat gccatatatg gcctaagaac 360
accctgtagc aagaacttac t 381

<210> 52081
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G5

<400> 52081

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tgagagtgcg tatcaagatc ctctacaccg cgctctgcca caccgacgtc tacttctggg 180
aggccaaggg gcaaaccggt gtgttcccga ggatcttagg acacgaagcg ggaggcatcg 240
tgagagcggt cggagagggc gtgaccgagc tcgcgccagg cgaccacgtc ctcccgggtgt 300
tcaccggcga gtgcaaggag tgcgcccact gcaagtcgga tgagagcaac atgtgcgacc 360
tgctcaggat caacgttgac cgcggcgtga tgatcggcg 399

<210> 52082
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-G7

<400> 52082

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acccctctta atttgctagg gctgcaacaa tatcttagcc tttgggatgc ttttaaggcga 180
gtggtgctca ctcaggacgc ggatcgacat gtgtggattc atgctacctc tgctcagttc 240
tcttcgaagt ccagtgatag ggcatattgc atgggttcga ttaccttcga accatggaag 300
aggttatgga agacttgggc ttcacccaca tgc 333

<210> 52083

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E5

<400> 52083

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atcaaattgt tattccagag aaaaacagtt ggaagaactt attctcatac atagggcctg 180
gatttctcgt ctcaattgca tatattgac ctaggaaactt tgagacggat ctacaggctg 240
gagcacagta caaatatgag gtgcctgctg cttcagtctt atgttccac ttcttctttg 300
gatcatacct tgtgcatcct gtgctgctct tattattcaa tcacttgcag ccaggctagg 360
ggttgtgaca gggaaacatc ttgcagagca t 391

<210> 52084

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C5

<400> 52084

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aaaaaaaaa aaaaatgcca tcctttttac aaattccatc tttccttaac ctttctttca 180
aatttctttt tttttcaatt ttataactta atttaattcc cttgaccatt 230

<210> 52085
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C6

<400> 52085

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cgctccatcg ttcactcaaa tgtgggtctcc gatacctggc accctcatga ggactagttc 180
actccctgct gtcattgagg cttctggcaa tgatgactgg aagaaacgaa aggaagcaca 240
gagcctgaag aggctcgagg ttaagaagaa gaggattgag aagaagaact ctctcgccctg 300
caacacttca aaagaagctg ctgggcagag tccaaaagag atgaatgcaa aactgacca 360
attagtaagg tctgatgaaa ctattggcaa cgcttacc 398

<210> 52086
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C9

<400> 52086

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gtccaactcg gcggcgatgt ctgggcgcgg caagggcggc aaggggctgg gcaagggcgg 120
cgcgaaacgc caccgtaagg ttctccgcga caacatccag ggtatcacga agccggcaat 180
ccggaggctg gcgaggaggg gcggcgtgaa gcgtatctcc gggcttatct acgaggaaac 240
ccgcggcgtg ctcaagatct tcctcgagaa tgtcatccgc gacgcgggtc cctacaccga 300
gcacgctcgt cgcaagaccg tcaccgccat ggatgttgtg tacgccctca agcgcagggg 360
ccgcactctg ta 372

<210> 52087
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D1

<400> 52087

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gagtcttcgg ataccattga caatgtcaag gccaaagatcc aggacaagga gggcatccca 120
cccgaccagc agcgcctcat cttcgccggc aagcagctgg aggatggccg caccctggcg 180
gattacaaca tccagaagga gagcactctc cacctggtgc tccgcctcag ggggtggcatg 240
cagatTTTTg tgaagacatt gactggcaag accatcacct tggaggtgga gagctctgac 300
accattgaca atgtgaaggc caagatccag gacaaggagg gcattcccc aaaccagcag 360
cgtctgatct ttgcgggcaa gcagctggaa g 391

<210> 52088
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D10

<400> 52088

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ttggataagg agttattgat gaaacttaag atgtcgcaaa acaagtttcc ttcagaattt 120
aagtccacca aaaacccaaa aattggtccc caggtgcctt tggaccaagg aacctttaat 180
aatccagaaa attttccatt ccccaaa 207

<210> 52089
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D11

<400> 52089

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aaagcagtgg tatttggaga gtcattgtgtc ttcagtaaca tgtttattaa gggatattttt 180
gaccgacttg agaaagatat ggactcgttt ggtattagac ttagtggttg tcaaggaaga 240
cctgtgaata cgaatctggg tagtgagcac aagacagggt ctggtcagca ctcgacaca 300
aaagatcttg gtggaatgg cactagcagt accggtgctt catcagacag agggtc 356

<210> 52090
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D12

<400> 52090

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tcatcaatga caagttcggg atcgttgatg gtctgatgac cactgtccat gccatcactg 180
ctaccataa gactgtttat gggccctcat ctaaggactg gaaggggtga aaggctgcta 240
gtttcaacat cattccaac aa 262

<210> 52091
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D3

<400> 52091

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agtactgtga tgatggaccg ccggtcaaga atttcatctc tctaggaggt cctcatgctg 180
gtaccgcttc agtgcctctt tgtgggtctg gatttttttg cattattggt gatgctctga 240
tcaaattgga gatctactca gactatgtgc aagaacatct tgcacctagt ggctacctca 300
aaatccaac tgatatggca gattatctga agagttgtag gtttcttcca aaacttaaca 360
atgaaattcc agataaaaga aatgccacct acaaggaaag attcagtagc ttaaaaaaat 420
tggttctgga tatgtttcag gatga 445

<210> 52092
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D4

<400> 52092

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aaaaaaaaaa ataaaaaaag gaaagttaa aaaaaaaaaa agcacaaaaa aaataaaaaa 120
aaaaaatata atatatcacc tctttaaaaa ttccaatttt tcttcccat cctttcaact 180
ccttcctttt t 191

<210> 52093
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-D7

<400> 52093

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tcctcttcga ggagaccctc taccagaaga ccaaggatgg caagcctttt gtcgatgtcc 180
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agccgtcaca gcttgccatt gacctgaatg ctcanngtct g 401

<210> 52094
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D8

<400> 52094

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 gatctaaact gtggtctgat actttgagcc gaggtctagt caatctggac atttctggac 180
 caaaagcgaa tcctcatgct gatattggag ttgactttga ttcaatcaat cgcaaggaga 240
 aaaggcagga aaagaaaatc aaccaagcac ctgtggtgtc tacagtcacc atgggcaagg 300
 gccatggagc tggttccggc attggtcggg ctggtgt 337

<210> 52095
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-C12

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 tgttatgaag ccctcaagta tctcaaaaag ggtggaccag ggagaggtcc ttcctctggt 180
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 gtctctgctg ccaagggtact tggaccttct ctgaaccgct ctgcaagaga aaatcgatga 300
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<210> 52096
 <211> 79
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-E1

<400> 52096
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 aaagttaaaa aaaaaaaaa 79

<210> 52097
 <211> 418
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E10

<400> 52097

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cgtcggcgtc ggcgctgcgc gcggcgcccg tcgtcagggg cgcggggcgcc ccgtcgcagt 180

cggagttgga gtcggacccg gagaaccagt gcgtgtacac ggtgtacgtg cggacgggggt 240

ccatctggaa gggcggcacg gactcgacca tcggcgtgac gctgctgggc cccgacggca 300

cgggcatccg gatccgggac ctggcgggggt ggggcggcct catggggcgcc ggccacgact 360

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<210> 52098

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-E12

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gaacgccatc gagggcatga acggcaagga gctggacggc cgcaacatca ccgtcaacga 240

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A5

<400> 52099

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tcggtcatgg tcgttggtgt ttgatgcgct tttattgtgg ttgttcgtgt gtaattgctt 180
gcctttcacc catttggcac gcactgtgta aggtcacact ggtctaagtt ttcaatctgg 240
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<210> 52100
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A6

<400> 52100

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agtgatgtgg atcatgcaga gcgaagggtt gatagatagg cgcagtttcc tggttgcaga 240
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ccctggctcg ccggccgctc tgccgcgtcg tgattcaagt gtatacctac agcctgctac 360
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gtgt 424

<210> 52101
<211> 98
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A7

<400> 52101

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 98

<210> 52102
<211> 396
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A8

<400> 52102

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tcctgcaatg tacttttggtc ttatgggtga tggccagcct attggtcgct acgatgatat  180
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caacggcatc ttctggcaag aagagctgat cccgttcttc cagtcggtct cccttccaaa  360
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<210> 52103

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A9

<400> 52103

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tgggtgtctat gctgaaaatt gcatcgaaac tgttgaagag gcagaaaaac tgctagggtta  240
ttcaccagat actttattct ctatttatgc tgaccaagag gatggtagcc cgctctgtgg  300
gggttctttg ccacctcctt tcccgctccc ttgcacagtg aggactgcgc ttacgagata  360
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<211> 229

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-004-Q1-K1-B1

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aggatgcggt gaaggcggtat gcctgcgctg ggtgccccaa ccagcagatt tgcgccaccg 120
ccccaagggt ccccgatccc gatgtggttg ctattgttga gaagttggct actgtgaaac 180
acaaattatt agttntgtct ggaaaggag gtgttggaag gagcacatt 229

<210> 52105

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B10

<400> 52105

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gggagggcac ggcgggttga acatcctgcc gcagaagcgg tggaacgtct ataacttcga 120
caaccgtgag aaggtgcaaa aagacgaggg cgcgcgcggc cgggaggagc agctccagcg 180
cgaggcggaa cgcgcgcggc agtcggatct acgcctcgct gcactacgcc gtaaccgcgg 240
cctggtccag ggcgagacgc cccccgtcc tccatctcac cccgccggcc ccgctgatcc 300
ggcggacgcc cttccttccc cgcgggacgc ccttccttcc ccggcaacgg atggagacca 360
catcaacctc ttctcaggtg gatcaagcg 389

<210> 52106

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-B11

<400> 52106

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cctccttgcg cttcttgccc tttttgtgag cgcaacaaat gcgttcatta ttccacaatg 120
ctcacttgct cctagtgcc aatttccaca gttcctccca ccagttactt caatgggctt 180
cgaacaccta gctgtgcaag ccaacatgca acaacaagcg cttgcggcga gcgtcttaca 240
acaaccaatt gcccaattgc aacaacaatc cttgccacat ctaacaatac aagccatcac 300

aacgcaacag caacaacagt tcctaccagc actgagccac ctagccatgg tgaaccctgc 360
 cgtctacttg caagagcagc tgcttgcatc caaccactt gctctggcga acgtagttgc 420
 aaaccaacaa caac 434

<210> 52107
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-B3
 <400> 52107

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 agtcttgacc gggctatcca ggacgcggag gcatttgtga ctattgcagg agaaaatggg 120
 gcttcctgca ttccacctgg aacccacact tcaatgcccg tcgagaccga tggtgccatg 180
 tacgtgcaag aagacgaggt cttgtgagat atcggtcacc ctagaaaata atcgcataga 240
 agcatcgcaa gtttttatcc agtaatgctt tcgtcgtcgt cataaatgtg atccgttgta 300
 agtttggaag aatcatgaaa acctagagtt ggggtgtatat actaccttga taaacctcga 360
 aattgatact ttcactattc tg 382

<210> 52108
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-B4
 <400> 52108

gtcactgggc gtggacagtc catctcaaat cttattcatc accgatgtct tccaagaggc 60
 cgttgctgct aaaaacgctg gttttgaggt gataatctcc attcgcccgg gaaatgcccc 120
 acttcctgac aatcatgggt tccgcactat caaatcattc agcgagatct gaggaatctg 180
 gtgatctgga catgtctaga tatatgtaat tcgcgagtgc tttagccac gtgccacttc 240
 atgcagtaga agcattatag caccgcagca tggcaaaacc attcgacgta acccttagtt 300
 tcattgcgaa ataaaaactt tggttcagtg ggctaaaaaa aaaagaaaaa 350

<210> 52109
 <211> 272
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-B5

 <400> 52109

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 atatttggtg cactgagta taccacagcg attgacattt ggtctgctgg ttgtgttctt 120
 gctgagctta tgctagggca gcctttgttt ccaggtgaaa gtggtgtgga ccaactcgtc 180
 gaaatcatca aagtccttgg tactccaaca aggaagaaa ttaaatgcat gaaccggaat 240
 tacacagagt ttaagttccc acaaatcaaa gc 272

<210> 52110
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-B6

 <400> 52110

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 gccgagcagc gccgcaggt ccttccacgg gaccaggccg gtggcggcaa gggactacta 120
 cgatgtgctc ggcgtcagca agagcgccag ccaggcggag ataaaaaagg cctattatgg 180
 gcttgcaaag aagctccacc cagacacaaa taaaggatgat gcggatgcag aacgcaagtt 240
 tcaagaggtt caacgagctt atgagacttt aaaggatgaa caaaaaagat cattatatga 300
 tcaggttggc cctgatcagt atgagaaaac tgcttctggc ggaggcggaa ctggcttcga 360
 ggggtggtttt ggaaatccat ttgaggatat ttttggtggt ggccgtggcn gtggtgg 417

<210> 52111
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-B8

 <400> 52111

cgcacgcgtc cgatagacca gtccgtttga aaacaatcct gaaaccaagc cgtgggggtg 60
catgaggaat ttgaggagca tgctgagaag gcaaagacct tgcctgagag cacgagcaat 120
gagaacaagc tgatcctcta cgggctctac aagcaagcca cggttggaga tgtgaatacc 180
gatcgtccgg gcatattcta ccaaaaggac agggccaagt gggatgcctg gaaggctgtt 240
gaaagcaa at cgaaggatga agcgatgaat gactacatca ccaaagtga gcaacttcaa 300
gaagaagctg ccggctctta aaagtctctt aatagtgttg ccaaacagct atttggcaga 360
tgagctttgt gccatttt 378

<210> 52112
<211> 403
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-B9

<400> 52112

gcacgcccag acggcggagg aagggttaaa gaggagggca gagcagcaac agggcatgga 60
gcgagggagt agagtaaatt gaatcaggtt tcgtgtcgat tcggaggctt tcgcttctgc 120
ttgcggagtt gcggtggaga tttgaggcct gcggcggaaga tggcacctgc ggaatccggg 180
gagaaggcga ccagcttcgc catggcctgc agcctgctca gccgctacgt caggcagaac 240
ggtgccgccg ctgccgatct cggactcgct atcagagctg aatccgatgc anagaggacg 300
tcgacggaca tggaaaaggg ggagacggng aaggagacca tggatctctt cccccagatc 360
gctggattcg gctcggaggc cgnacgaag gaagcccctg atg 403

<210> 52113
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-C1

<400> 52113

ttggatcgga cccagagggg cgactatgag aagctccaag gccagagcta cgcgaggatg 60
gacggatatc cgggtgcttgc tttgatgcgg ctttgggaat cattccaggg ctaaagggtc 120

gtggaactga ttactccact gcagatggaa cttgtattag ggactacatc gatgtcacag 180
accttgtaga tgcccatgtc aaagctcttg gtaaagctca gccaggcaaa gttggaatct 240
acaacgtcgg aacaggccaa ggtagatcgg tgaccgagtt tgtagaagct tgcaagaagg 300
caacgggagc ttncatcaag gtcgaatatc ttgcccgtag acctggagat tacgccgagg 360
tatacagcga cccgtcgaaa at 382

<210> 52114
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-C11

<400> 52114
cgccctcccg ctgccgtccg ggacgactca gaggccgtct gcccagggcc ggctcctgtt 60
caccgccgca cccgccgct cccgctgccg ctccctccgc ctccgccccg ccggccgccg 120
gtcggccccg tctcgcctc gggccaccaa ggctgtggtg gcagcgttgg ctgacctct 180
caaggtcatt atatcaggag ctccggcgtc cggcaagggc acacagtgcg agtcatcaa 240
gaccaaatat caactggcgc acatctccgc tggagatttg ttgcggggcg aaatcgctgc 300
tggctctgag aatgggaagc gggccaagga attcatggag aagggccagc tcgtgcctga 360
tgagattgtc gntaatatgg t 381

<210> 52115
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-004-Q1-K1-A4

<400> 52115
ccgaccaag caaaaccgca cgcaccctgc cagcggcccc ccaactccca acccaacggc 60
tactccagct agctcgcggc ggcggccagc ggccatggcc ttccggctga gcaacaacct 120
gatcggggtc ctaaacttcg tcaccttctt gctctccgtc ccgacctcgg gcgcgggcat 180
ctggctgggc caccgcgccg acggcaccga gtgcgagcgc tacctctcgg cgcccgatc 240

cgcgctgggg gccttcctnc tcgccgtctc cctggcgggc ctcgtcg

287

<210> 52116

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-G4

<400> 52116

cccacgcgtc cgctcatttt tctcgtctga aaaagaagag agcacaacag gcatccctgg 60
tctaacctcc tgatgatggc actcaacggc ggttgagaga agaccttcgt gtccatcctg 120
acgacatgct ttcttggtgt ggttgtaatt gtttccctat cctgcgaagc aaaaggcggc 180
gtcgtcccca ggttgcgggc accattctgc tttccatacg atcgtgaata ctgcacgcca 240
tttcaactgc gcaaagtttg ccaagagtac aacttccctg ctaagaatgg cggctactgc 300
gataaacgtg gtgacccatg gaagtgtctg tgtccatatt gaaacgtaca aaatgcatgc 360
atccatccgt gctgctacct gatcgatata catgtcaatc atcatcaata tatataatga 420
atgaantaaa tgcattgtg 438

<210> 52117

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-G6

<400> 52117

gtgggttggc ttctcctccc cctccggttc ggggttcgggt tcgtgaggtt ctccgggggg 60
cgggttcgtg ggtgagcgga tcgagatggc ggcgtcggat gttgagtacc gctgcttcgt 120
cggcggcctc gcctggggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
cgaggctctc gaggccaaga tcctcctcga tcgggagacg cagagggtccc gcggcttcgg 240
cttcgtcacc ttctccacgg aggacgcgat gcggaacgcc atcgagggca tgaacggcaa 300
ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg gccgtggagg 360
cggcagcggg gggtagcgtg gtggccgtgg aggcggcggc tacggcgggt gcgggcggcg 420
tgatggcggg ggcggctacg gcggtggcgg cg 452

<210> 52118
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-G7

 <400> 52118

 ggagaggggaa gaagcatctt gagcagctca agaatcctga tattactgga ctcgctaccg 60
 ttgtagtaaa gaaatgagca agagaagaag gaagactagt cagacaaaat agaagacgag 120
 aagaactgat gtagccatgt tcatgcttcc atgtaatagt tcattattcc atacatattt 180
 ctgtctatcc agaatctact attgaaatac atatctagca tagcttgctc agctcctata 240
 tgttgtttca acgttgattt aaaagaagag ctggtagttg tgggcttttg aac 293

<210> 52119
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-G8

 <400> 52119

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 tgatggcatt cagaaccatc acagtgacct tccatttggt caagctcaca gcaattttgc 120
 tccatttatg tccccagatg gggatgattt ccagcaaatt gaggggtgtca agagcaacct 180
 caggaacatg cagtagagcc cttacggcgt tactagaagc tcgattctac cctgtgaagc 240
 ttaccaaggg ggcaacatgt gccgttttaa tggcttgtgg aactgaacat aacaaaagct 300
 tgtgcctggt gcattctccc agaaattgat gtggttcggc tcatttgcgg agatgtgatg 360
 tggtaacga tataagatac atgctctctt tggttaagt 399

<210> 52120
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H1

 <400> 52120

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atgtaccatg ggagatgttc gctgactctt gccgcaggct caggatcatg aaaggatcag 120
atgcaattgg acttgctcca agggcagctg ataagtccaa gaatcgcaac tagaatggtt 180
gcttcttaca gtccagagca agagggagat atccagtac tgtagggatc tttgtggaag 240
ccggaaaacg tctaacagtt tcaagaagaa ttctgcctta tggctctgtac cacatgtttt 300
tgctgctacg caagtaaaga actccacgtc tgtcaatgtt agttttacaa catcgtctac 360
ggacaaaaaa aaaaccccc gctatttgat tgttgctaaa cctttgtacg acgtgtaaaa 420
tgttttgtac aatgagtgtc gcgacta 447

<210> 52121

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H11

<400> 52121

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ccagggctctg aagaaagagt tcagctataa caagatcctc aaggatctga agaaggaatt 120
ctgctgcaat ggtactgtag ttcaggaccc agagctaggc caggtcattc agctccaagg 180
tgaccagcgc aagaatgttg ctactttcct agttcaggct gggattgcca agaaagagaa 240
catcaagatt cacgggttct aagggacctg taaatgcttg tgccctatat tgtgtgcctc 300
cacatattgg ggagcttgaa gcatcgacag ttactagtca ttgcttactt atataagaac 360
ataagtagta tttgctattg tcaagtgtg 389

<210> 52122

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H3

<400> 52122

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gttatcgtat tccgcgagta aaaaggaaaa ctgctcgatg tccttttgtt tgttgcttgg 120

taataaccgtt ctgtttgcta taattatcga tcagcgggat gtgaagtact gtttacattg 180
ctcgcgttct aataaagtac tgtttggact tgcttaac 218

<210> 52123
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H4

<400> 52123

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cagaaactgc aagtaaaca aaactgaaaa actaaaaaaaa aaacctctgg atgtcatgta 120
aataagtgt ctttgtatgt tctccaatgt tgtttccttc atttgtctga ttgaatttct 180
aattaaaaaa aaaaacagaa ggtacaagcg ttagatacta catcaaagtc actgaacatg 240
taaagtctca agtaaaaact cttgaataaa gcttaaccaa gaaaaaaaaa aagggcgccc 300
cttttaa 307

<210> 52124
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-H5

<400> 52124

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cgcggtcaag gacgaggtgt tctgctgtt cgaggggggtg ctggacaacc tgggtcgtct 120
gagccagcag cacgggctgt caagcaaggg cgccaacgag gtgctcctcg tcacgagggc 180
ctacaagacg ctgcgcgacc gttcgcccta cccggccagc ttcattgctcg ccagctcac 240
cggctcctac gccttcgtcc tcttcgacaa gtccaccaac tccctgctag tcgcatccga 300
ccccgagggc aggggtgccg tcttctgggg gatcacgctc gacggctgcg tcgccttctc 360
cgacgacatc gacatgctca aaggctcatg 390

<210> 52125
<211> 466

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H6

 <400> 52125

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 cccagagggga cggctaggag aagctccaag gccagagcta cgcgagcatg gacggatatc 120
 cgggtgcttgc tttgatgcag ctttggaat cattccaggg cttaaaggttc gtggaaccga 180
 ttactccact gcagatggaa cttgcgtag agactacatc gatgtcacag atcttgtaga 240
 tgctcacgta aaagctcttg gtaaagctca gccaggcaaa gttggaatct acaatgtcgg 300
 aacaggccaa ggtagatcag tgactgagtt tgtagaagct tgcaagaagg caacaggagc 360
 ttctatcaag gtcgaatatc tggcacgtag acccggagaa tatgccgagg tatacagcga 420
 tccgtcgaaa atccacatgg aactcaactg gacagcccag tacact 466

<210> 52126
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H7

 <400> 52126

 ggcttggcgg aatcagcagg gtaaagttgt ttggcctgat taaattgcat aggttgggtga 60
 tgatgcctgt atgccggcat tggacagcta gcgtggtagt atgtttcttc tttgtttttc 120
 tttctgcttt ttcttttttg tcttgccagg tcattgtttt gttggatcaa tgacctggca 180
 agacataaaa aagatcaggc ttgacctcct taac 214

<210> 52127
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H8

 <400> 52127

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 tgcttagtga aataacacat ttttcatttt tcttttgtta atcagttgag gtactttata 120

gtactccatt ccagtatttt taattatgtc cacttgatta tgaaataaag gtttccttct 180
taattgaaac ttggaattgg gaaggtcgct cttaatggct attacttggg tccttatata 240
ttaatcttta aatagtggag cgagcccca cccatatgtg tacactgggt tttatttgag 300
actcaaatat ttttatatct ccatatccgt gagcgtttca catttcattt cagcaaaaag 360
cgctattctt ctagaagccc acaacagatc actctaact tgcctagcca caacattctt 420
tcgactgacg gtgat 435

<210> 52128
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A1

<400> 52128
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agttggaccc tactcttaca tatccctata tgttccgagc tgcattcttg atgaaaaggc 120
aaagtgttga agctgcattg atggagatca accggatact tggattcaag ctggtgctgg 180
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gtgacgtgca ggcaatacta actcttgccc caaattatc 279

<210> 52129
<211> 228
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-A11

<400> 52129
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cttgatacca atgctaact ccagtgacc aaatcaacag tccttcaatg ccacatagca 120
cactcacctg acgttcattg aacccttaca taacacactt atcacttctt tcaccctaac 180
gaagctaaca ctgactaact acaactaaat gcactccacc atttacac 228

<210> 52130
<211> 364

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-A12

 <400> 52130

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 cttggactga gtaggtttgg aggttagcgat acgagacact cgcccccgat tcccctcccg 120
 ttgccgaagc ctgtgttgca cggatcgttc gcggaagcgg tttttgatcg gagagagaga 180
 aagagagagc gagggagggg ggtggcgatg gacgctgcag cagccgcggc ggcgcagatg 240
 gagaggcact cgtcggcggc agcgcacatg gagaggcact cgtcgactgc ggacttcgtg 300
 gacggctgcg ttcaagacgg ctgccatgac acctgcagca tctgcctcga gaccttattc 360
 gaca 364

<210> 52131
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-G3

 <400> 52131

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 aaaaaaaaa aaaaaaaaa aaagaaggaa taaaaaaaa aaaaaaaaa aaaaaaaaa 120
 aaaaaccctt acctacttaa caattccttc cttccatacc catccatcca acttcaatcc 180
 cttttattat tccccctat atccaatccc cttccctccc ttaaacaacc ttcttatctc 240
 aaaaccctt cttttcccca acttaacctc cttttcatcc caacccttt tttccaccta 300
 ccatttaacc ataaaccccc ccacctacct cccttccaac ctctttctca tcccgatcc 360
 tcaatttaac cccctttt 378

<210> 52132
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-A2

<400> 52132

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cggcggcgag gagcaggccg tcgacatggg gctcacggac tactgcatgc ccgagatgac 180

cggctacgac ctntctaaag ccatcaaggc actgaacccc ctggagccga tcccggtcgt 240

cgatcatgtc tcagaagact agccccagag gatcaaccg tgagccagcc ggctctggtc 300

tttcctcttt ttgagcaccg gttcctttgg tccctatccc gtcccctgtg aatgcatgct 360

gaatcattcc gtgagataga a 381

<210> 52133

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F11

<400> 52133

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ggcggctgcg gctgccagcc accgccgccg gttcatctac cgccgccggt gcacttgcca 180

cctccggttc acctgccacc tccggtgcat ctcccaccgc cgggtccacct gccgccgccg 240

gtccacctgc caccgncggt ccatgtgccg tcgccggttc atctgccgnc gncaccatgc 300

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caacagccgc atccaagccc gtg 383

<210> 52134

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F12

<400> 52134

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ggccccgga ccatccagca tgagactctt gccacagaag ctctgtgtgc tgccccgtgt 120

gctccagcga tgaatgctga tgcttgcagc ttccattcta aggctttcca agattgtctg 180
aacaactatg gcagcgagat cagcaagtgc cagttctacc tagacatgct gaacgagtgc 240
cgccgtggtg gtgtgtctgt ctaagctgcc tctgggatta ttcattggatt ttcttttcgg 300
atgaggggat ctcattaata agacaccgtg aaacttcgac catctccaca gcttgaaacc 360
atacttctctg ggattaattt attt 384

<210> 52135
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F2

<400> 52135

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atgggggctg catgggcgcc taatggaacg gatgaatcaa actatgctgg tgaaggattt 120
gcaatggttt ctggaactag catggccgca cgcacatctg ctggcattgc ggcaactgata 180
aagcagaaga acccaaagtg gagccctca gcaataaaat ctgccatgat gacaacggcc 240
aatacactgg acaaaggag cgcctctctc agagcgcagc agtacactgc atcggaaatg 300
atgacacttt ctggggccac accgtttgat tgtggtagtg gcgctgttaa cccaaaagct 360
gcccttgatc ctggtcttgt tctagatgca acccacgaag agtacatcgc atttttgtgc 420
tcgatccctg acg 433

<210> 52136
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F3

<400> 52136

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gggcggaggg tatggcggag gtgccggaag cgggttacggg ggaggagctg gtggaggtac 120
tggcggtgga tacggtggaa gtgcacgagc aggaagtggc tctggaggcg gctatggtgg 180
aggcgctggt ggaggctact gtgggtggtgc tggcgctggt agtggcagtg gccttggtctc 240

tagcggcggt ggaggttatg gtggtggtgc cggaggctga agctgatgtg gaagttgagg 300
 tggcatcgga agcgggtgtgt gattcaacct cttacatcca tgcattggcgt gtacatgcaa 360
 gtgctcgacg cactgctctt tgcattttaa gcatgcgtgg agtcaagcta atagcatgtg 420
 tgcgatatac cgatcga 437

<210> 52137
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F4

<400> 52137

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 gggccgcctc tgcgatcccc gcaaggctgc aaacatgtct accgtgctcc agcgcccgac 120
 ccccggcacg gtccagtgtt tcggccgcaa gaagacggct gtggccgctg cctacaccaa 180
 gccggggcgc gggctgatca aggtgaacgg cgtcccgatt gagctcatca ggccggagat 240
 gctccgcctc aaggccttcg agcccatcct gctggcgggg cgctccaggt tcaaggacat 300
 cgacatgagg atccgcgtcc gaggcggcgg gaagacgtcg cagatctacg ccattcgcca 360
 ggccgtcgcc aaggggctcg tcgcctacta ccagaagtac gtcgacgagg ccgccaagaa 420
 ggaggtcaag gacatcttca cccggtacga cc 452

<210> 52138
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F5

<400> 52138

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 cgtgatcgcg tgccacacca aggacgagtt cgacgcccgc atggccaagg ccaaggagca 120
 gggcaagctg gtggatcatg acttcatggc cccctggtgc agtgggtgcc agatgatggc 180
 cccggtgtac gcggactgcg ccagcaagta cccttcgcgc gtcttcctcg aggtcgacgt 240

ggacgaactg ctggaagtcg cgaagatcta cggcgtccat gtgatgccga ctttctgctt 300
catcaggaac ggcgagacgc tcgagagctt tgctaccgtc gacgaggacg agctccggga 360
cgccgtcagg aagtacgccg ncgctggcac tacgacggct cctgccttcg cgtncgccta 420
attcaggaga tgtgatgtgt agcaaatagc gcgcgc 456

<210> 52139
<211> 464
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-F6

<400> 52139

cacagaccgc caccgccagt cgccattgct cactgctctg ctcagcgctc catgtcgtgg 60
cccaaattcc gtgactcatc ttctttctct ttgccaggct gcgcgtgcat accacggacg 120
gacgcactgc cccaatcta ctgtaagtaa tctactaatc tgtaaactctg taatccctaa 180
tcctagcttt gtggccatat atggacgcac gcaccgcccg gagaaggacc tgcccttgcc 240
gctgccgtcg gctcgcacgc gcacgcccac gcccgcgttg ccgccgctcc tcttctgaa 300
cagcctgcac ggcttctcct cggttgctgc aagcctgcaa agagctccgt ggttgtaggc 360
tgtagcctac tagcctctcc ctccccacc cncacacggc cacacacttg tcaattgnng 420
ttttgtttgg atattgttcg aatccctcgc tgaaatcatg tatt 464

<210> 52140
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-F7

<400> 52140

cccacgcgtc cgcggacgcg tgggagagct cgagctctgc tcggcccccc tctgtgttgg 60
cgcttgctgc acaacacgaa cctcctcttt tcctccacaa aacagcagcc ccgatccct 120
ccgcacgcg tgcttcgttc gacctgcgca gtcccaacc gcgccgtcgc gatggtgttt 180
gagacagccc atgtcgtgtc gttgatctgc gcagttcgac cgtctacgcg tctcacttcg 240

ccggatctgc gcagcccaaa catcgacgcc gttcaccggtg gagacgac gatgatcttt 300
 gtttgattcc acatcgccat tgttctccgg tgattaaatt gtgtatatgt gctgttttgt 360
 tttattttat tttgtggagg cgaggaaccc catgttttgc gtggagaaga aagcaagtcg 420
 tcaacgctcg tccgatgttn cgagtgatgc acaaaatcga atc 463

<210> 52141

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-F8

<400> 52141

ccaacccgac cgacgcattc gtacgtccgc tcnatacatc tctatctcct tttgttacgg 60
 caacctaacc ccccttccgg ggtgagtttc tatacaatcc gcgcagggtc ctaaacaatgt 120
 ctactgtgct ccagcgtccg acctcctgca cgtttccactg cttccatctc aagaacacct 180
 ctgcacccaa tccctacacc tatcagcggc accaacttat catcgccaac tgcgtccaga 240
 ttgagctcat cagaccgcac attctacatc ttaatgactt cgaactcatc cttctgccag 300
 agcactctac gttcaaggac atctacatga tgatacgttt acgacgccat tttaagacat 360
 atcagatc 368

<210> 52142

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-F9

<400> 52142

acgtcacaaa aaccctcgct ccccaacaacc cgtcgccgcc cagcccgccg cctgtacgag 60
 cggcgtcaag atgagtcggc accctgaagt gaagtgggct cagaggatcg acaaggttta 120
 catcactgta cagttacctg atgccaagga cgctaaggtc aatttggaac cagatggtgt 180
 cttcacattc tctggcagtg ctggtacaaa cttatatgaa ttgaaactag atctgaatga 240
 caaagtaaac gttgaggcta gcaaaataag tgtgggtgtc aggtccatat tctgtattgt 300
 agaaaaagct gaggccaaat ggtggaagaa acttggtcga gatgatcaaa gggcacctca 360

ctttgtgaaa agtgattggg acaaatgggt tgacgaagat gatgatgggtg ctgatgtcaa 420
 cttggatggg atgga 435

<210> 52143
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-G1

<400> 52143

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 ggggagaccc aggtgacggt ggagtacgtg aacgagggcg gcgccatggt gcccgtcgcg 120
 gtgcacaccg tgctcatctc caccagcac gacgagaccg tcaccaacga cgagatcgcc 180
 gccgacctca aggagcacgt catcaagccc gtgatccctg agaagtacct cgacgagaag 240
 accatcttcc acctcaaccc gtccggggcg ttcgtcatcg gcggggccca cggtgacgcc 300
 ggctcaccg gccgcaagat catcatcgac acgtacggcg gctgngagc ccacggcggt 360
 ggcgcttct ccggcaagga c 381

<210> 52144
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-G10

<400> 52144

gcgatccgaa gctcaatcaa ttactcaaa cctcttcccc aaatcttcga ttagatggtc 60
 gttgacaaga agactagaac cgaacctgac catgtcgctg atccgccgca gcaacgtgtt 120
 cgatcccttc tccctcgacc tctgggaccc ctttgagggc tcccccttcg gctccggcag 180
 cagcagcagt ctcttccctt cgttcccgcg gaccagctcg gagaccgcgg ccttcgctgg 240
 cgcgcggtac gactggaagg agactccaga ggcgcacgtg ttcaaggccg acgtaccggg 300
 gctgaagaag gaggaggta aggtggaggt cgaggacggc aacgtccttc agatcagcgg 360
 cgaacgcaac aaggagcang aggagaagac ggacacctg 399

<210> 52145
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-G12

<400> 52145

ccgaaacaaa aataatgcac agtttcatat ctaagctttt gagggagaag tgtangagat 60
taatgcattc tgaatttaaa aagattacac aaagaaatag acgtatttct agaagtaagg 120
ttgaagtaca tacctatctt acagtgaggt tcttttttct ttcagagtga atatgatgg 180
cattggagta atggaatagt tattgacaga gaggaaagag aaacagtagt tgtgtaattc 240
ctcgcagtga agaaaaacaa taatgtaagt gtatgctcta aaaatgaaga gaaaactgca 300
caacctaacc cagtttatat gaaactataa ctctgcaatg tgtcacttcg atccttagat 360
atcctttaag ttgggaacaa atagttttg 389

<210> 52146
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-G2

<400> 52146

cctctccctc cgctcgctct ctccctccct cgggtcaaagc cagcacgaca acgcagcagg 60
ctgggtagct gtccccctcg cctcatccc tctcgggcgc cgctgccggc ccgcctcccc 120
cctcgtgccg ctctgccgcg gcgcattccg cggccgcctc gccaccgaat cgggcggaat 180
ctcagcggga ccaaaatggg gtcgccgggt gcggggagca gcggcgcca cgagtgtctc 240
ttcaagatcc tgctcatcgg ggactcgggc gtcggcaaga gcagcctnct cgtcagcttc 300
gtcgccgcct tccacctcga cggcgacatc gccccacca tcggtgtgga ttttaaaatc 360
aaagtcctta cagttggtgg aaagaaacta aagttgacaa tatgggata 409

<210> 52147
<211> 436

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-F1

 <400> 52147

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 catggccaag tcgaccgga tggttgtagc cgccttgcc ctggtggtgg tgatggcgac 120
 gacgagcaca ggcggtggca gggcggcagc ggcgtgcgat cccaagccgc tgggtggtgtg 180
 cgatccggcg ttcattggacg gagcgaaacc cgcggcagca tgctgctcca ccctgcgtgc 240
 gcaggaggca tgcttggtgcg tgtacgcaa agacccaag tttgcaaaat acatcaacaa 300
 ccccaacacc ggcaaacct ttacctcgtg cggcatagcc atcccaaat gctaagcaag 360
 cgctctgcgt cgctcgttcg ctagctcttg ctctcngtg taacatatnc agcttatgaa 420
 ntaaatatgt ggatca 436

<210> 52148
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-D6

 <400> 52148

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 acctggtatt tctagtcaac ctggtaatat catccaccga agggagccta gtgggaagtt 120
 gtataattat gctgcagctt ctaaaggggc caaggttctg gatttcaata aggaggctaa 180
 ggggtgcttc aacatcttag ataaagacaa agacaagtac ctccgcaatc cttgctcagc 240
 agaggggaag tttgtcatca tagagctttc tgaagaaacc ttagtagata caatcgcaat 300
 tgcaaatatt gagcattatt cttctaattc aaaagaattt gaactgctga gcagtctgac 360
 atatccaca gaaaactggg aaactcttgg aagattcact gccgcgaatg caaaacttgc 420
 tcaaaatttc acttntcttg aaccaaagtg ggctagatat ttg 463

<210> 52149
 <211> 455

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-D7

 <400> 52149

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 cgccgcccgc gccgcccgc tatcccggtc cttcaggcga accagggttg tcatggcctt 120
 caacaagatc aaggctctcca acccgcgtgt cgagatggac ggcgatgaga tgaccagggt 180
 gttctggaaa tctatcaagg acaagcttat attccctttc gtagacctcg acatcaaata 240
 ttttgacctc gggcttccac accgtgatgc taccgacgac aaagtcacag tggaggctgc 300
 ggagggcaca ctcaagtaca atgtggctat caagtgtgcc accattacac cagatgaagc 360
 angggtaa at gagtttggt tgaaggctat gtggaagagc ccaa atggca caattaggaa 420
 tattctgaat ggcactgtgt tcagagaacc aatca 455

<210> 52150
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-D8

 <400> 52150

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 atgcgctact tagaagcatt gctagacaga ggatcgaaag atgggttagt actgattaaa 120
 aaatggctta ttgaagcctt gcagcatggg aagctaact ctgcatccaa aggttggcaa 180
 ggagccactt ctgtttcaga gattcgatct atggtgcaaa tgctttcccg agaccagttg 240
 tcattgttaa aaaacagggg tgttatccag ttagcactag ctgctgaaat gactctacgg 300
 gagcctcaaa gttctcgctg ggacgccttt acaagtgccg agagaatatt aagtgtgaca 360
 tctgcagaga cacctcaaag tcttgccagt gagcttcgtg atttcatcaa cactagcact 420
 ttagttgaat cacacacaca aactacttca atggagtctt caca 464

<210> 52151
 <211> 393
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D9

<400> 52151

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gggtgagctg cggttgagc tggacgagct gcggcggctg gagagcctcg ccaagcaccc 120

ccgcgtccag atcctcctcg ccaacgaaat ccgcaacgtt gaagcgaagt tggcgaaggc 180

aaccgaacca tcgcctgagc cactggcggc ggcttctgcg ccagcgcccg cgcccgtgc 240

gcgtcctgtt ttaagctacg tcaactcttg gtcgttcagc tgggagcagg acaacgagaa 300

gattaggata tatgtttccc ttgagggagt tgagcaagag aaggtggaga ctactttcaa 360

gccaacatca gtggatataa agtttcatga tgt 393

<210> 52152

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E1

<400> 52152

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tcctttgttg caaacgctaa atttctcacg aattcttccg tcgtcggcgg cgcagattga 120

atgccaaaac cctagctcgc cctccccaat tccccatttc ggccacaccc tccttgccctc 180

cacggctcca ccctgcttc aggttacctg tgccagcgac gccggtagaa gccatggaca 240

gctctctcgc gagcgcggcg gcgatagccg atcagcgcca gacgatcgag cagtaccggc 300

acatcctcgc ctacgtcctc tcgtcttccc caccggacat ctctcaggcc aagcgcttgc 360

tcgaccacat ggtttcggac gaagttccgc tcgtggtgtc gcgtcaattg ctccagacgt 420

tcgcgagga ccctaggaag ctggagtcgg a 451

<210> 52153

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E10

<400> 52153

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gtcatctctg ctctagcaa ggatgcccc atgtttgtcg ttggtgtcaa cgagaaggag 120
tacaagtctg acattaacat tgtctccaat gctagctgca caaccaactg ccttgctcct 180
cttgctaagg tcatcaatga caagttcggt atcgttgagg gtctgatgac cactgtccat 240
gccatcactg ctaccagaa gactgttgat gggccctcat ctaaggactg gaggggtgga 300
agggctgcta gtttcaacat cattcccagc agcactggag ctgctaaggc tgttggtgaaa 360
gtgcttctt 369

<210> 52154

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E11

<400> 52154

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tgggtataac agccgcgggc agggatatagg ccaccatggt ctggccaccg caggtagacca 120
ggttcggccc cctgaccacc tacac 145

<210> 52155

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E12

<400> 52155

ggccaactgc ccagcgtgag tcgtgacctg cctgtcaatc gcttgagtct tgaccatggg 60
ccacacggaa ttagatatct gtggtgcact gattttgggc taacgacccg atttctatct 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aagagcataa aaagaaataa caattataat aagcgtcacc taaaatcaaa 240
tcaatggcca ataaaataca acaaat 266

<210> 52156

<211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-E4

 <400> 52156

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 ggggtgcacg cctcgccggc tcaccaatcg acaccctgtc caaccagcac caccggcggt 120
 cgtcctccct ggcggggggt taggctagct agagctgtac agcgcgagag cgacgaacgg 180
 caggtcgatc ggcggtcgca cgtacgtcgt cgaccgagag cagagcaggc gaccgcgggc 240
 ccagagatag ttcgaatccg attccgaccc atccatgggg gtccacctgc tgaagaagca 300
 gcactcgtcg gcgccgtcgt cgctggggccg cggctccggc tccgggtccg catccgggtc 360
 gtcgggtgtcg gcgtcgtcga tgccgcccga ggggtgcatg gcggtgcgcg tgggtggg 417

<210> 52157
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-E6

 <400> 52157

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 gcggagcaag atgtcgtggc aggcgtacgt cgacgagcac ctgatgtgcg agatcgaagg 120
 acagcatctc agcgccgccc ccatcgtcgg tcacgacggc agcgtttggg cgcagtccga 180
 gagcttcccc gagttaaagc ctgaggaggt tgctggtatc ataaaggact ttgatgaacc 240
 tgggtactctt gcaccaactg gtcttttcgt tggaggtaca aagtacatgg tgatccaagg 300
 tgaacctgga gttgtcatcc gaggaagaa gggcactggg ggcattacta tcaagaaaac 360
 cggcatgtcc ttgattattg gtgtctacga cgagccaatg actccagggc aatgcaacat 420
 ggtggtggaa aggctcggcg attacctgat cgagcagggc 460

<210> 52158
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-E7

<400> 52158

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gcattgcttg ggatgggttag gtgtgggcac cctgatgtcc ttgctcaagt tgcacgtggc 120
attgcaaatt ttgcaaatg tgaatctaga gcagctactc aaggaaataa ggtgggaaaa 180
tcactattaa tcgacgatgg atcgctccct tggattgtaa aaaatgcca taacgaagct 240
gccccaatga ggcggcacat agagctcgca ctgtgtcatt tggcacagca tgaagtaa 300
tcgaacgaca ttatcaatga aggagcccta tgggagcttg tacggatttc aagggactgt 360
tctcgagaag atataaggaa gttggcatac cggacactga catccagccc cactcttcaa 420
gccgagatga ngagactggg aataaaactg tgatga 456

<210> 52159
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-E8

<400> 52159

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tattgctgcc gggttgcat gtggtagtga aagcttcctc ttgatgtttg ccagatggag 120
aaaacttgag agggatttat acaatgaaag aaaggaccgt ttgacatta cacagatccc 180
agatgtatat gattcctgca agtatgacct tttgcataat gctcatctca atcttaaggg 240
tttgaagag ctattcaaag ttgctcaaat actcgctgat ggtgttattc caaatgagta 300
tgggatcaac ccaaagcaaa aactgaaaat cggctcaaag atagcgcgcc gtttattggg 360
aaaaatccta atcgatctac gcaacactcg tgaagaagct atcagtg 407

<210> 52160
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-E9

<400> 52160

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ctcaagggtc cggctgccga tgatgatgtc gtacgcgccg cagaacgagc acttgctgca 120

ggaacagaca ctgaacaacg ctcggtccggc tcctgagaag aggcagcggg ttccgtcggc 180

gtataacaga ttcatcaagg aagagattcg caggatcaag gcgaacaacc cgcacattag 240

ccacagggaa gccttcagca cagcagccaa gaactgggca cattatccga acatccattt 300

cggcttaaac tccggccgag aggggtggcaa gaataagctc gtggacgagg ctgtcgcggc 360

ggtggcngtg gcttcgaaga agatccaagg tttctactga tcgatgccgg tcgatcgagg 420

gatc 424

<210> 52161

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D4

<400> 52161

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ccgctgtaca ggctcgacag tacgagcttc accacgcgag aggacctaac tgaagcgggc 120

tccacgacgt tcgacggact ggcgtgaccg gacacttatg cacagtgctt tacatgctgg 180

caaaatcaac ctgcacacca ctgacgctgg tggaacatgg ccaccggcca caccatcagg 240

ctgctccatt gaccgagctt cgagagccgc ctggtgccgt accaggaccc gtccctgaac 300

gagaccttgc tcgggcacct gagccggaac tgcccgcaca aggtcaccta cctgcggacg 360

ccgaatgaca tgcacacgca cgtcgccttc tacaacaagt actacgacca cctggtgaac 420

cacgacgggc tcttc 435

<210> 52162

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B9

<400> 52162

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gtggccggca cgcgcatcta cgtgcaggaa gggatctacg acgagttcgt gaagaaggcc 120
gccgagctcg ccagcaagtc cgtggtcgga gaccggttca acccgagtgt cagccaaggc 180
ccccaggttg acaaggacca gtacgagaag gtcctcaggt acattgacat cgggaagcgc 240
gaaggcgcca cgctggtcac cggagggaag ccctgcgggc acaagggcta ctacatcgag 300
cccaccatct tcacggacgt caaggacgac atgacgatcg cacaggatga aaatctttgg 360
ccgtg 365

<210> 52163
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C1

<400> 52163
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ggggcttatt ataaaacatc tgacctatt aaatacacca aaataacatc ttattttctt 120
tttatagtcc cctctaatta actctctctt catcaatttt caccacctta acttttaaaa 180
cactttaatt cccaaccttt tactcttcta aaaccatatt cctttcaccc ct 232

<210> 52164
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C10

<400> 52164
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ggccaccagc aacgagtcgc tggagaatgc cttcgctctc tacggcgaga tctctgactc 180
caaggatcat accgaccggg agacggggag gtcccgcggc ttcggcttcg ttaccttctc 240
ctccgagaac tccatgctcg acgctatcga gaacatgaac ggcaaggagc tcgacggccg 300
taacatcacc gtaaccagg ccagtcctcg tggcggtggc ggtggcggcg gtggctactg 360

cggtgtcgc ggcggcgcg

380

<210> 52165

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C11

<400> 52165

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gagcaaggac gtgggcaagg gttccgctg catccgatg gtcaacaaca cccgcctcaa 120

cttcgacgcc ttccacggcg acaaggacca cggcggcgtg cagcagga ccccgctcgt 180

gctctgggag tgggtgcaagg gcgagaacca gagctggaag atcctgccgt ggggtcccga 240

ggccaactcc tccgcggccc acgcgggagg cccgcacgcc gtgcgcgtct tctgcaaagc 300

cggcggcgag gactacagcc tcacggtgcg caacggcacg gcgtgcctgg cggccaccaa 360

cccgcgggac gaggaccagc actgggtcaa ggacatgcgc cac 403

<210> 52166

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C12

<400> 52166

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gcgactgcat gtcccctaac gtggagaccg ccgccgccag cagcatcaag accacggctc 120

tcgccgcgcc gaccaccaag gccagcgcg gcggcttcga ggcggccacc gagggcggcg 180

gctgcgactg caacacctgc aactgcggca ccagctgcgg ctgctcctgc tgcagctgca 240

actgagccgg tcaggcgatg gcgcacgaga gtcgagagga cgacgacgag tcgtataaat 300

ataatagcgg cgtctaaata agatcctgtc aactgcaccc ggcattatcg atccatggtc 360

gctcctgggg ttcatgttca tct 383

<210> 52167

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C2

<400> 52167

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tgctgcacca tttcctggga ggatactgcc ggtagatcta acaaacttta gtggagaact 120
tctttgccag gcagatgctt ttctatgttc ggtcaatgat gtctccgtct ctagtacagt 180
tgagccaagg ccacggaata ttgagattgg tgcagagatg atccttaaac aaaaacttag 240
gggccagggg atggcttttc ttgttgggtg tggatcagtc atgcagaaaa tccttgctcc 300
tagagaggtg ataactgttg atgctgcttg tattgtggct atgtcggcca ccattaactt 360
ccagttgaag agccctaacc agcttagaag agcagttttt gggggtgata accagctaac 420
ag 422

<210> 52168

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C3

<400> 52168

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atgatgatga tgatgatgat gaggtggtg acgacgacga tgaagacgat gatgatgaag 120
aggggggtga tgaagatgat gatcctgagg ctaatggtga aggggggagt gatgatgacg 180
acgatgataa cgatggtgat gatgatggtg acgatgatga cgacgatgaa gatgatgacg 240
aagatgaaga tgaagaggat gacgacgatg aggaagaaca gccaccttcc aagaagaaga 300
agtgatttgc tctttcatgg attcacctca gcttctccat gctgttagtt gtgttggtta 360
gatcatggaa cagctttggg acaaatgttg cttgtcatgg tattatagtg taggaaacct 420
tgacatctga tgttaaaatc g 441

<210> 52169

<211> 467

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-C4

<400> 52169

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cccacgcgctc cgccgtctcc acgccgcgtt ctcccgcacg aatccgcgct cgggccaacg   60
ggcgcaagcc ctagccaccc ccgcccattc atggtggggc ggccgtgaga tctctagggg   120
ggcttgtcgg cttcgtcggg cgggagggga ggagatgggc gcccggaaca gcgctgccgc   180
cacgccggtg ctgctcaacg tgtacgacct tacggccgcg aacgattacc tctactggct   240
cggcttcggc gtcttcact ccggaatcga agtccatggc acggaatatg ggtttggagc   300
ccacgactac ccatccagtg gtgtgtttga ggtggaatca aagagttgcc ctggctttat   360
ctacagaaga acagtgtggc taggcacaac agacatgtct caggaagaat tccgctcgtt   420
tattggaaaa cttgcanngt gatatcatgg cgacacatat catttaa                   467
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<210> 52170
<211> 217
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C5

<400> 52170

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gtagaatctg tctaaacagc taaggttttt actcgctgt atgctagcgg tgcattgagag   60
cgcatttatg ttcttgatgt aataacccat catacttcag tctcatcta ttgccatttg   120
cttgataaaa aattggctat acatatgctc catggaatga agtctctaca tgactatcac   180
tctgtatcga ttggttgtag acttgtgggc attatca                               217
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<210> 52171
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C6

<400> 52171

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gtcatcttca aacgacgata atggctggga tggcttccag tctgcacaac cagtacctag   60
ttcagagaaa aaagattctg ccaaaccagc agaaagcaag acccagtcta catctggaat   120
ggaagactta tttaaagact caccagctgt gccattatcc tcagctccag ctgtttccca   180
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agtaaacgct aagaatgata tcatgagttt gtttgagaag tccaatatgg tatcaccttt 240
 cgctgcccac caacagcagc tggcgctcat gtctcagcag caagctcttc taatggctgc 300
 tctcaaagct ggaaatgcac cacaaatgat gattccaggg actgccaatc agctaaatgc 360
 taacggaacc ttgcctttcc aaaactggac aaatctttat caaaatcctg ggtcgactcc 420
 agcagcagca cagaatggtg 440

<210> 52172
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-C9

<400> 52172

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 tgtagcttcg attgcgagac gcatgggttg agtcatttta ttgtagttag tttatatgat 180
 acgtcgttgt caccgcatga agattaactg ctgtgccata tgaagacctc ctgcctcatc 240
 acggtgtttg tatataagat caactgcagt gcctacacgg tggacggagt atttgtatga 300
 tgtgaaggtc actattcagc atcgtcagta tgaaatggct atggccttca aagcttaaaa 360
 a 361

<210> 52173
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D1

<400> 52173

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 aggatatctg cttggacatt tcttccacca gagaatgggtg aagccattca gatattacac 120
 taccagaatg gtgagaaata tgaacccac tacgactact tccatgacaa aaataatcag 180
 gccctgggag gccatcgcat tgccactgtg ctgatgtacc tatcaaatgt cgagaagggt 240
 ggagagacca tcttcccaaa tgcagagggg aagctattgc aacccaagga cgacacttgg 300

tctgattgtg caagaaacgg atatgcagtt aaaccggtaa agggatgatgc cctgctgttc 360

ttcagttctcc accctgattc aacaacagac tctgacagct tgcacggtag c 411

<210> 52174

<211> 307

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-D11

<400> 52174

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gtagttaaac aacacatctt gctggaacgc agaagataga acatacagga agaaaatatg 120

tattcgtgcc ccgactccat atgaccatat ataagtaaac actgtttgat gtaaatcaaa 180

gattcagctg tctatgggag ctgttctagt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaacia ataaaaaaaaa aaaaaaiaaaa aaaaaaiaata ggacaaaaat 300

acataat 307

<210> 52175

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D12

<400> 52175

aaaaaaaaaa aaaaaaaaaa aaaaaattat aatttaaaaa aaaaaaaaaa aaaaaaaaag 60

aaaagggttaa ataaaaaaaa aaacaaaaaca aaacaaaaat aaaaaaaaaa aaacataatc 120

ttgtccattt tcatgtctcc caccttcctt cccct 155

<210> 52176

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-003-Q1-K1-D2

<400> 52176

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gaaggctatc gtcaatgtca ttggtatgac taaaatgact ccaccaatca aggatcttct 120
tcctcgtctg acccccattc ttaagaacag gcatgagaag gtccaagaga actgcattga 180
tcttgttggg aggattgctg atcgtggagc agaatttgtg ccagcaaggg aatggatgag 240
gatttgtttt gagctgctcg aaatgttgaa ggctcataag aagggtatta ggagagcaac 300
tgtgaacaca tttggttata tcgcaaaggc tataaggcca caggatgtgt tggccaccct 360
gttgaataac tngaangtgc aagaacgaca gaaaccggtc tgtacaactg tagctatngc 420
tatangtgct gaaacttgct cacctttcac 450

<210> 52177
<211> 408
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-B8
<400> 52177

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agttgcgcca tattgtacag ccgccatagt acttcccccc tccttgcccc taaatccagc 120
cagggttttc ctctccctc ctgggtagcc gtggccgcct gtagtcctc cctcgtgtaa 180
ttagaaccgt gtaccgagtc gagttcattt acccactgtt tgaggttcca gagagttgag 240
atttaaattt taagtggcgc cattgccctt cctttcttcc tccccctcta agtattaact 300
ttgttgcggc cattgttgtc gtgactctgg ccatagatcc ttttatgtac atgcgaaatg 360
taaccaaggg atatggaata agaacatggt catcctgttg tagacaaa 408

<210> 52178
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-D3
<400> 52178

cggcttgatg cttggtattc tgaccggagt ggttccgtgg agagcaccgc tgcttacagg 60
atgggagggc tgtgtcggag gtgctgcctt cctgaaacaa ttctaagatc tatgcaggca 120

tgtatcgcac tctccgcggc tggatgatgat ctagattact ctctagataa atgtgacgaa 180
 cttgttgagt tagttgggtc agccgagctc ggaatgatgc atttgttcag ccagcagcag 240
 ttgcaggagt tcttgatttt cgagagggaa tatctcatat gtacaatgga gtttgaggag 300
 gaccggttgc cttgtgatgg ctaagctttt tccccacttg ctgactaatc catgagacat 360
 gaccggcatg tgcattttgt ggcgccgtga cccaagaacc tgctgtgatg tatcgctaca 420
 ccatttcaaa agcgaaagat ggaatttagt gcgtaacg 458

<210> 52179
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A3

<400> 52179

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 tgctacagct tctattggat gatgacattc tggattcgca tactgcatac tacgaagccg 180
 gcggctagaa tgtctaaact catgtactat gagacgcagc agagaatgag atacttgttg 240
 tacaattca aggaccacca gaactgctgc tcgatctacg cttggaagga gatcaaggac 300
 tgcagctggt gcgactacag agttaagcac aaaggggtgc 339

<210> 52180
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A4

<400> 52180

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 caaggtgcaa gtacgctgct cgcaaaaaca agccagagct gttgagggaa ggaaacctcg 120
 aggaggcagc aatggtggat gtttgatcg aggtggaggc taaccagtac accgctgcac 180
 tgaatcccat cctcttccag gtcctcatca gtcctatgct tgggggaacc accgaccaga 240
 aagttgtgga tgagaacctt gagaagctga agaaggtgct agaggtgtac gaggcacgcc 300

tgaccaagtg caagtacctt gctggagact tctcagcct cgccgacctg aacctatgtgt 360
 ctgtcactct ctgcctgttc gctacgccct acgcattctgt gctcgacgcc taccgcgatg 420
 tgaaggcctg gtggtctggt ctgatgg 447

<210> 52181
 <211> 452
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-A5

<400> 52181

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 gcgtcgagct ctacgccgag aaggtcgtca accgcggcct ctgcgccatc gcgcaggctg 120
 agtccctccg ctacaagctc ctcgagggcc ttgccgtccg gagggcctgc tatggtgttc 180
 ttcgctttgt tatggagagt ggtgccaaagg gttgtgaggt cattgtgagt ggaaagctca 240
 gggctcaaag agccaagtcc atgaagttca aggatggcta catgatctca tctggtcagc 300
 cagtgaatga gtacatcgac tcagctgtga gacacgtnct cctcagacag ggtgttctgg 360
 gtatcaaggt gaagatcatg cttgactggg acccgaaagg gcaggttggc ccgatcacc 420
 ctcttccgga cctggtgacc atccataccc cg 452

<210> 52182
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A7

<400> 52182

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 tactgtgatg ttcaactccg gataaaaacg tctcagttga acacagacac ccacaaaaag 180
 tcataggata cagagtgtgc ttcacgtaat tacatccatg agctggatgc ctctcgtgcc 240
 cgggctcgga cgtgttcagc tggacgcgac gaagccgatg ctgaaccgga acgagatgca 300

gctcagctcc tcgttgctgt ccccgacaat cttcatgtag atcgtgtagg agccccggcgg 360
 agtgaagcct ggcagcgtct gctggtggga cagcacgaag tcgccgggtcg ctgggcagga 420
 agtctctccg cagatgtcgc ggg 444

<210> 52183
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-A8
 <400> 52183

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 cccacccagg ggcggatctc caccgggggc tgccctgggct gcagcccctg tcggcagtcg 120
 cggcccagtc catcatcgcg cgacatgacc tagcagtagc agcagacgtc ctacgtccag 180
 ccccagccgc cgccgtttgg ctcttgcgtt cgatctcgtt gcgtcctggt cctgcgccct 240
 gcggtccagc ctctctctcca agactccact tctccagcgc gctcgccgc gccagccgcc 300
 aggccgncac cggccaccgn cattggcccc accatttgcc gctccgcct acgatgccga 360
 cgagtgaggt gtggagctgg tccgattttg aaatcagcaa gtacatcgct ganggcaggt 420
 tcggcagggt ctacctcgcc cgcgagaagc agagcgggt 459

<210> 52184
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-003-Q1-K1-A9
 <400> 52184

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 ttcgtctaca gatggcagca gtttgcaaga tgcggtagag aagccagatg cgtcgaagaa 180
 gacgaagaaa ggctctgatg taagatcagc cctcaccgtt gcctttgcc aagtattcgga 240
 gaagatccgc agtcagggcc gcgatgcgcc aaacgaggcc ggtgagagta ctggcggctc 300
 gaccgtggaa gctgagaggg cgggagacta gatttagctg taggatggtt aacggtgctt 360

gagtaatgct agttt

375

<210> 52185

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B1

<400> 52185

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gctgatgcta tcgatgacga gatcagtgtc aaggacggtc tgatgaccac tgtgcatacc 120

attactgata ccagactac tgccgatagg acctcatata aggactgaac taatgacagg 180

actgctagaa ggaacattat tcccaacatc actggcactg ctaatgctgc tggcaaagcg 240

cttgctgtac tgaacggtga gcttaccgga atgtcgactc gagtgccaac cggcgatcga 300

accgtcgatg attctactgt taagcttgca gagtcaccag cctatgatga gatcaatgat 360

ga 362

<210> 52186

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B10

<400> 52186

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acgccccgcc gcggctggac gaggcagatc gcacgctcta ctccaccttc tgcggcgccg 120

ccaactccct ctcccagctc tacgcgcagg ccatggccca gcagaagctc aacttccatg 180

ccggcgagcg ccacgcctta gaaaagctct accagtggat cttgaggaag cacgatgaag 240

aggctaggct cactgtggct gaaataatgt ctcatatcca gcatgagata gactatgtag 300

gtactgatgc acatgtctcc ccaagagtac ctacgcatcc tcagattgca aatccattcg 360

ccaattca 368

<210> 52187

<211> 388

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-B11

 <400> 52187

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 agctgaagaa gaggggctat gaggtgctgt tcatggtgga tgccattgac gagtattcta 180
 ttggacagct gaaggagttt gagggcaaga agctcgtctc tgccaccaag gagggcctga 240
 agctggacga gagtgaggat gagaagaagc gcaaggagga gctcaaggag aagtttgagg 300
 gcctctngca ggtcatcaag gaggtgctgg gcgacaggtg gagaagggtg tgggtctccga 360
 ccgcgtggtg gactccccct gctgcctg 388

<210> 52188
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-B12

 <400> 52188

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 tgctcttcg tctctctctc cgggctatca ggacgaaata actggccgcg ctgcacgccg 180
 gccgcctcga gaagaagcgc tcgccccgcg cgcgcggctc cgggctacca ggacgaaata 240
 actggccgcg ctgcacgccg gccgccgca gaagaagcgc tcgccccgcg cgctctgccg 300
 ctggttcggc cgtgccatcc cgacgaggtt cccccagctg tgcccgcctc atctccttcc 360
 gcgcgcacgc gcacg 375

<210> 52189
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-B2

<400> 52189

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agttgctcct ccactttatg ttttgaccac acagaccctt gacaaggatc aaggcatttc 180
agttctcact actgcagtca aggcttgtag agcagagatt gaaaagtaca aaggaaagtt 240
agtagtgaag gaaccaccaa gagctgttag tgagcgggaa gacaagctat tcctcgacca 300
gattgattcc ctaatggagc aaaacgcaga ggtcgatggg gatgctgaca gtgaagagga 360
ggaagatata ggaatggggg acgtcgacat taaaaattct tgcgtcgctg cttactaagg 420
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<210> 52190

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B3

<400> 52190

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aaagcttgtg gatgttgggt ggccatctgt ctgggtcagg attgcaacc agtgggcgac 180
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agttcaacca cggtaaagcct ggagcatcaa acgtgtctac tgtggttagct aatatatcct 300
atcaagtatg ttgcctttaa aacatgctcc gagtcgggtg ttgccactg ttatcaagtt 360
tgttactta ataacatgtg actttaggca ttgtgccact atcttaacag tgaacgtgtg 420
ctgcttgat tgtgtatata ctggagaatt taagaatgc 459

<210> 52191

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B4

<400> 52191

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 agggaggatt ttcattgggac ccactgtaga tttctaattgc cactgcactg ggctacctga 120
 ggcagcgcac cttgagctta gcgatattgc atatgtttgt taaaattggg atatcaagtt 180
 gctggtgcaa aggttttttc tgaaatatat attgatcttg tgttggattg gt 232

<210> 52192

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G6

<400> 52192

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 gccgcagctg cctgctcgcc attactgcaa gctgtgttca atcaaagctt aattaggctc 120
 cctctacatc tgatccagct aagtagctag ccagcactac agaagggcgt ggcaagaatc 180
 aggagagaga tagcaggggg gctagctagc tgagctcgtg cgacgaagaa tggccggaat 240
 tggcaggaac atggtggcgc cgctcctggt gctcaacctc atcatgtaca tcatcgatc 300
 cggcttcgcg agctggaacc tgaaccaatt catcaacggg cagaccaact accccggcgt 360
 ggccggcaac ggcgcgacgt tctacttcct g 391

<210> 52193

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-G8

<400> 52193

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 cgcaggcatg gaggggaagg aggaggacgt ccgcctgggc gccacaagt tctcggagcg 120
 ccagcccatc ggcacggcgg cgcaaggcac ggacgacaag gactacaagg agcccccgcc 180
 ggcgccgctc ttcgagcccg gggagctcaa gtcttggtcc ttctaccgcg ccggcatcgc 240
 cgagttcgtc gccaccttcc tcttctcta catctccatc ctcaccgtca tgggcgtctc 300
 caagtccacc tncaagtgcg ccaccgtcgg catccagggc atcgctggt ccttcggcgg 360

catgatcttc gccctcgtct act

383

<210> 52194

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G9

<400> 52194

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caacacaagc atgagaagga aaagaagaag acataacaac tgagcgccaa caagttctcg 120

gaagcgccag cccatcggca cggcggcgca aggcacggac gacaaggact acaaggagcc 180

cccgtcggag ccgtctctcg agcccggcga gctcaagtc tgatccttct accgcgccg 240

catcgccgag ttcgctgaca cttctctctt actctacatc tccataactca ccgtcatggg 300

cgtctccaag tccacctcca agttctccac cgtctgcata caaggcatcg gctgttcctt 360

cggcggcatg atct 374

<210> 52195

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-H1

<400> 52195

agccccacca gctctgctca gccaccacca tctctctctt cctcgaacgg tcgagcggcc 60

ggaagcacgc accccgccgc cgcgtaccct cccctcaccg gctttctatc gccggccgcc 120

gttctgcgcg acgcggattc gaatccggaa agcgggcat gggggcgaag cgcgcggtgc 180

tggtgggcat caattaccag ggcaccaaag cggagctcaa gggctgccac aacgacgtcg 240

ctcgcattgc cgggtgccta cgcgaccgct tcggattcga cgagtccggc atccgcgtgc 300

tcatagatga cggctccgcg ccgcagccca cgggggcca catccggcgg gaactcgcgc 360

gcctcgtcgg ggacgcgcgg ccccgtagacc tncctctttt cactacagcg ggcacggcat 420

acggctgccc cgcgagaccg ggaatgacga 450

<210> 52196
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H10

<400> 52196

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ctggttcgtg ggcgagaggg aagagatggc ggcgtcggac gttgagtacc gttgcttcgt 120
tggcggcctc gcctgggcca ccgacgacca ctccctcaac aacgccttca gcacctacgg 180
cgaggtcctc gagtcgaaga tcctcctgga tcgggagacg cagaggtccc gcggttcctg 240
cttcgtcacc ttctccacgg aggacgcgat gcgcagcgcc atcgagggca tgaacggcaa 300
ggagctcgac ggccgcaaca tcaccgttaa cgaggcccag tcccgcggcg gccgttga 358
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<210> 52197
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H11

<400> 52197

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ggaacaaatc accaccacca caccagcaat cgcaagactc cttcgagccg gaggcatatc 120
gggtgaaatg gaacaaatca ccaccaccac accagcaatc gcaagactcc tttgagccga 180
aggcatattg ggtgggatgg aagaaacatg cgcaaggagc aacggacgtt gctgatgaga 240
caacgccagc acgtggatcat ggtctgcatg tcgcgaccgg gatgctcttc acgaggaaga 300
gcttgcttcc agggacagcc ctaccggaag gtaccaagtt ctgcggccac ggcttcctcg 360
atcccagagag gtttgaacta 380
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<210> 52198
 <211> 243
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H2

<400> 52198

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aggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaacaaaaaa taaaataaaa taaaaaaaaa ataaaaaaat 180

gaaacaccat aataaaaatt attttaaacc caaaaaactc aattgctaga aattctaact 240

ggc 243

<210> 52199

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-H4

<400> 52199

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gctccttggg ttttctgcaa gtgctgctac ggcgaccatt ttcccgaat gctcgcaagc 120

tcctatagct tcccttcttc ccccgtaact ctcaccagcg gtgtcttcgg tatgtgaaaa 180

ccaattctt caaccctaca ggatccaaca ggcaatcaca gctggcatct tacctttatc 240

acccttggtc ctccaacaat catcagccct attacatcag ttacctttgg tgcatttatt 300

ggcacaaaac atcagggcac aacaactaca acaacttggt ctagcaaacc ttgctgccta 360

ctctcagcaa cagcagtttc ttccattcaa ccaactagct gcattgaact ctgcttctta 420

tttgcaacaa ncacaactac ca 442

<210> 52200

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H5

<400> 52200

aaaaaaaaaa aaaaataaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aagaaagaaa 60

aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaattaaaaa aaaaaaaaaa 120

atttaaattt aaaaaatttt tatttaatat aaaaaaaaaa aaaaacaaaa aaataaa 177

<210> 52201
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-H6

<400> 52201

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cgcaccgccg tgctgcttac agggaggtgg cgctcgctgg gaggcggcag cgcgaggctc   60
gcaaggaggc aacgcgatac ctgtaggcgg cctcgttgag acgttgctcc tatcgtggag  120
gtcttcctct cgaccagca gccgtagccc agctgtagcc caactcagat ctctgctgta  180
acgtcatcca ataggctaag gagttccttg gtggttcggg tgacaagcga aaggaagtca  240
tctgcagtat ggaggaggca gataagctca gtggttctgc tgcaaggcta aggagttcct  300
tggtgcttcc ggtgattctc tntctgttgt aaagcagcta tctgcgagt gcctctacac  360
a                                                                    361
  
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<210> 52202
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H8

<400> 52202

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ctctcgcca gtcgcctcgt ctctccctgc cgcgtcgctt ccagttccgc ctccggcgcg   60
cctccgcct ccgccgcgcc tgacgaacgc agtataggac tgtgcaggta gagaggagga  120
gggtccggcg agatggggat gcgagataag aagcggaacc agaagcgagt gtcgcgcgcg  180
cgtaccgcgg caccgcgccc aggcgagggc aaggatttcc tgccgctgga aggaggcccc  240
ggtaagaagc atctgaaggt gcagcagcct gaagagcccg aaaacacagc cacaatcgtc  300
tacattgggc atatccccca tggtttctac gaggacgaga tgaaagggtt cttaagcag  360
tttggggata ttaagagggc taggatcgct cgtaaccg                          398
  
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<210> 52203
 <211> 376
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H9

<400> 52203

cccacgcgtc cgggcacata accgtgctct agttgaggag cgtgaactgt taagcgggga 60
aatacaagct ggaaaagatg aggtccgcca cttgaatgtg atcattgctg acattaacac 120
tgagaaagaa gcttatatca gtaagcttat ggacaagagg aggaagcttg aagctgaact 180
tggagcaagt gagcacttgt gtgatgaggt caggcatctt cgtggtgaaa ttgacaagct 240
cgttaccgct cggaagaac tatctgcaga ggctgcatct ctctggaag agctgaacag 300
ggagcaatct gttaaacagc agctacctgt gctgaaaaca gaaattgatg gtcttgacac 360
ggaacttggt cacgtg 376

<210> 52204

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A10

<400> 52204

cccacgcgtc cgtctcactc tcagctgggc gctcactctt gcagctccac ccttcacgca 60
gtcttaggct cttagctcta ggctctagct agccgcgcca ctcttcctg tagccatcag 120
ccttctcacc gccaccaatg gccactgccg aggtccagac cccgaccgct gtggcgggccg 180
aggaagcgcc cgtggtggag accccgccgc cgcccgctgt gcccgaggag tctgcccccg 240
ccgaggccga ggccgaggcc gaggtgagg ctgctgctcc tgctgatccc gaggagcttc 300
ccgcggccga gcagcaggca gccgccgagc ccgaggccgc tgctcctgct ggtgccgagg 360
agcccgcggc ggccgac 378

<210> 52205

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A11

<400> 52205

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 ttgacacgga taaagactgg tggttttgag tgggtttcgc cagatgaaac tgatagagct 120
 ccatacagtg ctgtggaggt tgcagtgtta tcagaatctc atgacctttg tattaatggg 180
 gactgttttg aaatgctaca aagtactgag gctgttctcc aggttatccc ttatgtgaag 240
 gttttttcac gtgttgctcc agaacaaaaa gaacttgtag taactacatt caaaagtgtt 300
 gggaggggtga cactgatgtg tggagatgga accaatgatg ttggtgcact gaagcaggca 360
 catgtcggcg ttgctctttt gaatgctg 388

<210> 52206
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A12

<400> 52206
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 aggctaagcg ataccttgag gatgttattg ctcaacagca ggcaattccc ttccggagat 120
 actgtggagg tgttggtcgc accgcacaag caaagtctcg ccaactccat gggcagggtc 180
 gctggcctgt taagtcagcc aagttcatat tggatttgct gaagaatgct gagagtaacg 240
 ctgatgtgaa aagcttggac gtggacaacc tctatgtttc acacatccag gtgaaccaag 300
 cccagaagca gagggcgccg acctaccgtg ctacagacg cattaaccct tacatgtgct 360
 gcccttgcca cattgagctg a 381

<210> 52207
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G5

<400> 52207
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 aggggcgccg gcggccgcat ttagagtag gtcgagcttg ttactgccc tcgcggcctc 120
 aaagcaagcc acatcatcga tggcgagcgc agctcacgct ttctgtgctg tagcgggtggc 180

cgccgcgctc gccggccgct cagacggcgc gtggtgcgtg tgccgtccgg agctggcaga 240
cagcgcgctg caaaaggcgc tggactacgc gtgcggcgcc ggcgccgact gcaagcccat 300
cctgcagagc ggcgcctgct tcgccccgga caccgtcaag gccactgct cctacgccgt 360
caacagcttc taccagcgca acagccagaa cccgcattgcc tgcgtcttct ccggcaccgt 420
cacgtcagc aacagcgacc cg 442

<210> 52208
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F11

<400> 52208

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agcacaggcg gtggcagggc ggcagcggcg tgcgatccca agccgctggt ggtgtgcgat 120
ccggcgttca tggacggagc gaaacccgcg gcagcatgct gctccaccct gcgtgcgcag 180
gaggcatgct tgtgcgtgta cgccaaagac cccaagtgtg caaaatacat caacaacccc 240
aacaccgcca aaacctttac ctctgtcggc atagccatcc ccaaagtcta agcaagcgct 300
ctgcgtcgtc gcttcgcttg ctcttgcctt tgggtgtaac atatccagct tatgaataaa 360
ttatgtggat cagttaatta gtgggatgaa aa 392

<210> 52209
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F12

<400> 52209

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aagaacagaa aaccgagagc ctgatgaggc tctcctgggc gcttggtcac tctagacagc 120
ctgaagatgt caaccggggc atcgaatgc ttgaagcttc attggacagg tctagcagcc 180
cagaggaaac aagggagaag ctctacttgt tagctgttgg tcgttacaga actggggatt 240
atacaagaag ccgacagctt ttggaaagat gcttagagat ccaacatgac tggagacaag 300

ccataacttt gcaaaggctc gttgaagaaa aaaccaaag agatggtatg aatggcat 358

<210> 52210

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F2

<400> 52210

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ggcgtgaagc gcgcggacgt gaggggcggc gtggggccgt tcgggctgtg ggtgctggcc 180

tccgccaacc gcaaggagag aaccgccgtg ttcttcaggg tgttcaagcc cgccgccggc 240

agcgacaagc ccgtggtgct catgtgcacc gaccctacca agtcgtccct gaaccggaac 300

ctgtaccgtc cgacatttgc aggatttgc gacacggaca tctcgaacgg caggatatcc 360

ctgagaagcc tgatcgaccg gtctgtcgtt gagagc 396

<210> 52211

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-F3

<400> 52211

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gtccttagga agaagggcca ctcttactca gagataatta atgagagcct gatcgagtcc 180

gtggactcgt tgaaccggtt catgcatgct cgcggtgtgg ccttcatggt cgataactgc 240

tccacaactg ctcgtttggg atctaggaag tgggcaccac gcttcgatta catcttgacc 300

caacaggcgt ttgtgactgt tgacaagaaa gcaccgatca accaagacct catcagcaac 360

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gacatctcag tgaccgctga tgctgatntc gtgcg 455

<210> 52212
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-F5

<400> 52212

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actccgcggg gacgttcgac gtgtcgtcga ggaccggcgg tcccttcggt actatgaagt 180
gcccggcgga actggctcac ggcgccaacg cggggctgga catcgcggtg cggctgctcg 240
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ttgtggccgt cgaggtcacc ggtgggcctg agatccccct ccaccccggc agggaggaca 360
agcctcagcc gncacctgag ggccgtcttc ctgatgccac caagggttct gaccacctga 420
ggcaagtctt tggcaagcag antggtttga gtgat 455

<210> 52213
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F6

<400> 52213

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tgtgttcaac aagggaggga gacagatgca gatgcagtgt gagatgtttg catggaggcc 120
cctatagaaa caagtgaaat gtttaggcgc ctttgtgcac atgctggtcg cattccttgc 180
aagaatacca ggggtggggc cagaatggca tgagctgggt gttcctttct aactcttctt 240
cttcttcttc tctcttcttc ctttatttac atttttcttt tatgtgtttt cgtctaatta 300
aagttctggt tttgtagttc taccgtgcaa ctcatgttac cggaagaa tataatgaaca 360
ggaaatccca tatgatcttt gccatcttt 389

<210> 52214
<211> 410
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-F7

<400> 52214

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gctggagacg gcgacgggca ccatccaggg gttcgcgcgc ctgagccaga tccaccagca  180
cctgtgcgcg ttccacttct acgcggacga catggggcgg caggtggagg cgcaccactt  240
ctgcgcgcac ctgaacgaag acgtgcggca gtgcctcatc ttcgacgggc ccggcgccgg  300
cgcgcgctc atcggcgtgg agtacatcgt ctncgagacg gtgttcctga cgcttgccga  360
cgccgagaag ccggttgtgc acacgcacga gttcgagggtg aaaggcgggt   410

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<210> 52215

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F8

<400> 52215

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gttccttgtg aggtatcatg acagaacagc aggaagggtg tagcaagagc tcttcctcaa  120
gtattagcag cagcactcag gagagtgagg aggaactgac catcggtacc cttataaccg  180
aagcaacaaa cacaacaaac agtgccaaga gtcttggaag gcgcctttca cacttagatt  240
cgatcccgca cactccacgt gttaatggga aaattccaga ttttaataat gcgacaattg  300
atcatgaatc attattagaa agattaagca cttatggctt agctgaatat caaa   354

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<210> 52216

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F9

<400> 52216

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acaaattgta tctgctacta cttgatatgg cttttgatgg acaagaaatg atgcgaagaa   60

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ttttgggcag ctatagtctg caaagtctag aaaaagtttc aattgggctg ggactacagg 120
 cgctgagagt acacatgtca gatgatacaa ctcatctatt catcacaagg acttccaagg 180
 aagcgcaaga tgtacttttg ctcttgagcg taactaactt gcccaaatta aaccacaaga 240
 tacatthttca aagttgggag aacatccaag tcaaattggt cgagaaatgt attatacgca 300
 gaactgcata tacgggaata tgtctctact ctatgttgat gttctggagg aatgacgttg 360
 aagaagactc ccgtttttatt agatccatct ttgtcattga atgctccata ttggtgtgca 420

<210> 52217
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-G1

 <400> 52217

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 cagacggggcg aacaagatga gggagatcat cagcatccac atcgggccagg ccgggatcca 120
 ggtcggcaac gcttgctggg agctctactg cctcgagcac ggcacgagc acgatggcac 180
 catgcccagt gattcctcgg ttggcgctcg acatgatgcc ttcaaacagt tcttcagcga 240
 gactggttcc ggcaagcatg tgcccagggc catcttcgtc gaccttgagc cactgtcat 300
 cgacgaggtt cgcactggct cgtaccgncg gctctttcac ccagagcagc tcctctcggg 360
 gaaggaggac gcagctaaca actttgcccg tggccactac acggttggga aggagattgt 420
 cgatctatg 429

<210> 52218
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-G11

 <400> 52218

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 tgctgcata ggttgctaca cgtatatatt ctgaagaaga gatcgagatg accagcgtgt 120

ggaagaccaa ggttctgcct ggcctcaaca agatctttga caaggatggc aagaaggctg 180
cagctgcagg cttcttgaag tccttcaaca aggaggagtt tgacaaggag attgaggaca 240
agaagacaga gctggagccc aaggtcgtgg aggcctacga agcatctcct cctgaggtca 300
aggctctctt caaggataag aagccagtca aggtcagcaa gaagaactcg gctgcagtca 360
ccaagttcct cgatgagctg gc 382

<210> 52219
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G12

<400> 52219

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accaatctcc aaggaagtat ccagcttagt cattggaggc acaatgaact tgcattggtg 120
tcttcatata caagcgacga aagtaggatt tggaacagtt ttgagccaga taatttctct 180
cgtggaaacc gccagatgt ctaaggcccc tattcagaag ttgctgatt atgtagccag 240
catttttgtt cctattgtca tcacctgtc cttcttgaca ttccttgcat ggtttctatg 300
tggtggttg ggagcatatc caaactcatg gtctgctgaa agtagcaatt ggctttgttt 360
cttcctaata 369

<210> 52220
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G2

<400> 52220

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ggatgtgagg cgtacaacct tggaaccgga aaaggaacat cagtgttgga gatagtcaat 120
gcatttgaga aggcttctgg aaagaaaatc cttttggtca tgggtcaacg gcgtcctggt 180
gatgctgagg ttcttttttc atcgccggca aaagcggaga gagagctgca ctggaaagca 240
aaatatggca tcacagaaat gtgcagagac ctgtggaact gggctagcaa gagcccttat 300

ggatacgcgg catctgagtc tcccaagctg aatggcagtt cacgctgagc aacacgattg 360
 gtccttgtgg actcacttgt acatgagaca gtagtgccata ccaggataaa ttagatctta 420
 gta 423

<210> 52221
 <211> 461
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G3

<400> 52221

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 tacgacgcgt ccgggtcggt catggtctac tcctctctcg acaagcatct ggtggagaca 120
 attacgaacc cgggtgacag ccaggcgatg agcagcatca acctcttccc cgccggcttc 180
 tccctcgccc cctcaccaa cccggacccg gcgccgcaag agggctccgg cagcatcgca 240
 cagcctgggg cgaccgtgat gactgccggg ttccagattc tgatgaagat ggcccgtggg 300
 accggccttt gccctcgctc ggtgtcgctc gcggtcaaga tcatgtcaga caacatcacc 360
 aacatcaaag acgctctgtt gaaaagccac cctgttttct acaagagcat tcagtctgtc 420
 gactgaatag cggcaagggg gaaagggagg tcgtccaatg c 461

<210> 52222
 <211> 114
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-G4

<400> 52222

gtataactac tactactacg aggctagctg cgcgctgaac acagcgctgt aaaggagtgt 60
 tggtgtgcta aattcagaat gtgtaagttt aatttatgtt attaccagtt aacc 114

<210> 52223
 <211> 410
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-D11

<400> 52223

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tgcacccaag ccaccacatg ccatacaaac cctagataac ccattcggac cgtctgcgta 120

tgacgccaga catcccgaat ataatgtcgg acgggtccggc cacatggccg gacagtccgc 180

gcatggagtc ggacgggtccg cgtatttacc ggacgggtccg gcacagagtt ttttaaggaa 240

gatggatatc taactccgta ttcgtcccag ctagactccc catctcacca tacgacanca 300

cagcatcata atataatcta tcaaacctgt gagagtgaga acctttcggc ccctagaaaag 360

ccagaaagga tggccagtc tatgagcctc atanggcattg cattaacgcg 410

<210> 52224

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D12

<400> 52224

cccacgcgtc cgcttcagat ctcaagaaga tggtctttcc tccttgccac atgtgggcac 60

aatttaattgt ggagaacggg aagctatcct gccagatgta tcaacgtttt gaaaacatgg 120

ggctgggggt tccattcaac atggaataat atcctctttt gacatatata atggctcaag 180

tttgagatct ttctccagga gattttgtcc atgttatagg ggatgctcat gtctatagaa 240

atcacgttcg agctctggag gaacagattc agaagatgcc taaaccattt ccaattttga 300

agataaatcc ttcgaaaaag gatatagatt ctttcatggc gtcagacttc aagctgggtg 360

gctatga 367

<210> 52225

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D2

<400> 52225

atcatatcct atattgaaga caggaactct ggcatcaciaa ccagacatt gttgagacca 60

tgcttgggca tctgcaaaca atcgtaaaga atagctctga atctaact gatgaaattc 120

ccaagattaa tgttcctaca aacccaaaag gtgctgaaag acttccacca ggc 173

<210> 52226
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D3

<400> 52226

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gcacggcggg caccaccagg ccccgccgcc gcacgagcag acgctgttca ggatcttctg 120
ccgcgccgac gaggcgtact gcctcacctg ggcgcacgac gccgtcgtcc tcgcgcccac 180
caacccccgc gacgagtacc agcactggta caaggacatg aggcacagca cgaagggtgaa 240
ggacgcggag ggccagccgg cgttcgcgt catcaacagg gccaccggcc tcgccatcaa 300
gcactcgtc ggccagtccc atcccgtaga gctggtgccc tacaacgcgg agtacctgga 360
cgagtcggtg ctgtggacgg agagccacga cgt 393

<210> 52227
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D4

<400> 52227

aaaaaaaa aatattaata aaaaatttaa aaaaaaaaaa aaatggtctc ccctatagga 60
aagggttaaa tttttggggg ggctatac 88

<210> 52228
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D6

<400> 52228

cgcacccttt catcagcctg cctgtccact gttggcttgg tgacttcctc cgctccgctc 60
cgctcccctc cgctcccgaa cggtcgatct ttgcatggca gcagcagctg gctccaaggg 120

gcgggcgatc gctggaagct tcgtcagccg cgtcctcgcc ggca

164

<210> 52229

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-D8

<400> 52229

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gttcagcaag gaagcccaag ccttcttgat tgctattatt gagaattttt gcattgatga 120

tgcaaaagaa ataaagaaaa tcgagaaagt aaccaaccat gatgtgaaag ccgtcgagta 180

ctttctgaag caaagggtgca gctccaatcc agagattgct aaagtgtcng agttcttcca 240

ttttggctgt aactttgaag atatcaacaa tttgtcacat gcattggctc tt 292

<210> 52230

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E1

<400> 52230

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gtacctttgg ccattgtctc ttgatcggtc cagtgttacg tcactactgt agagaagaga 120

acggttttgg tccttgaggc gccccgtgta ctggtgttgt cgctgtagaa ttgttactta 180

aacagtatgg tgatgattaa tctcagcatt ttttttcttg cagcaaaaaa aaaaaaaaaa 240

aaaaacaaga tgaaatatat tattttgtaa ttatgaccag gtgtactgtg ctatacatta 300

aaagtatata tttgtgaaaa aaaaaaaggg gcggccggtt taaa 344

<210> 52231

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E10

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gatcagtgca atcgtgaaac atcatcttca ggtacttcag gcagaaaagg aagcactagg 120

gcactgcatg ctgaagaccc gtcaaattatt cacattggag taggatgcga ctcatgtggg 180

gtatatccga tacgtggtaa gagatacaaa tgccaggact gcactgagtt aataggcttt 240

gacctttgcg aagcctgcta caactccagt tcaaagctcc caggacgctt taaccagcgg 300

cacacccta atcacagaat ggaagttgac aattcagcac tcgtgcataa gatac 355

<210> 52232

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-E11

<400> 52232

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tggagaaggc ggggcaacaa cgccatgtta tgggcggcg cggaagaag gcgcccgcgc 120

tggggctgca gaagcagaac tcgtggctgc cggacatcga gcgcgacgag gcgtgggagc 180

gccggcgagc gggcatgcgc cgcgggggca cggcgctgcg ccgcgcccgc agcgtcacgg 240

acgacgacct cgacgagctc cgcggtgca tcgacctggg ctteggcttc gagccggcgc 300

acgccgncgc gtgcgcgtgc gcctgcgcct gcgccgggag gaaccgncn ctggagaccg 360

ctgcgcgct cgacctctac tacgccgtcc acggcgggg 399

<210> 52233

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E12

<400> 52233

cttactgagt gaccaggtcg tgggttcaaa gcatttatct cttctctaga cccagtcac 60

gtgggaatct ccgatactag aagggttatag acaccatgaa taccctgac caagtgtcaa 120

tgttagtgtc cgccttaaat actggaatga tgtgtttaat gactgattct tatgggaatc 180

atgttgtgga cactgcctg cagaaattgt tacctgagca caaggcattc attcttgagg 240
ctgctgcac atgctatctt caactagcaa gagatcgta tggttgctgt gtcctccaga 300
aatgtattgg tcattcaagt gatgaacaga gaaacaactt ggtgtgcaag ataac 355

<210> 52234
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E3

<400> 52234

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gatcattggt gtcgacctga accccagcag attcgaagaa gctaggaagt tcggttgcac 120
tgaatttgtg aacccaaaag accacatcaa gccagtgcag gaggtacttg ctgagatgac 180
caacggaggg gtcgaccgca gtgtggaatg cactggcaac attaatagcta tgatccaagc 240
tttcgaatgt gttcatgatg gctgggggtg tgctgtgctg gtgggtgtgc cacataagga 300
cgctgagttc aagaccacc cgatgaactt cctgaacgaa aggaccctga aggggacctt 360
ctttggcaac tataagccac gcactgatct gccaaatgtg gtggagctgt acatgaaaaa 420
ggagctggag gtggagaagt tcatacagca cagcg 455

<210> 52235
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E4

<400> 52235

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aatcatgctc tgttcaaaca gtttagctgg aaccatccc aaggatcatc atccaaataa 120
atgtataaag gaatgaaagt gcaccatata tgataactca aaaataataa tacagtaata 180
acaagatggg cacttctttt gttgcagaca tagataaggg aatatgatca aaacaaattg 240
ctatggcatc atcaatgatg gaaggcctcc gaaatttgag gtttctagat tatgggtatg 300
acatcttttg catggtatca tcttctagat cttaagactg atccaaatgt aatgaaaga 360

aaaggattag tcggggcgga aactgacgta tgaactcaag tttaacaagat cctgctgctg 420
ctctgctgat gccactaca 439

<210> 52236
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-E5

<400> 52236

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ttgatgggtgg tgaatcgctc catttgatc tgctccgata tgctattttt tgaccatgtc 120
atggctaata ccagtagttt gttgtgcacc atgggcataa tgagcattct gtattcacgc 180
tgtgtgctac aaacatatat ggagtaatat aaattagcag tattttcttt 230

<210> 52237
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-E7

<400> 52237

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ccccagatcc ggcaccgccc gctcctcgat ccccgacccc caccgcccga ggccgggacc 120
ggcgggggtcg cgcgccgggt aggaggagga gaagaggaag ggtgggtatgg cggcgccgcc 180
ggcgagggcc agggccgact acgactacct tatcaagctg ctctcattg gagacagcgg 240
tgttggcaag agttgcctcc tgggtgcggt ctctgatggt tccttcacta caagctntat 300
taccacaatt ggtattgact ntaagatacg aacgatagaa ttggatggca agcgtataaa 360
gctacagatt tgggatacgg cgggccaaga acgcttncgg gactatacca ccgcgtacta 420
ccgaggagct atgggcatct ngctgggtta tgatgt 456

<210> 52238
<211> 414
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-D10

<400> 52238

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tggaacttat atacaaagta cagacacagt gctatgagga tgctaagctg atgaagctgt 120
ttcctgaaat cataagaaca ctgtatgacc aagatgtcct agctgaagat actgtcctgc 180
tttggttccg taaaggttca aaccagaagg gcaggcaatc tttcgtgaaa gctctggagc 240
cgtttgtcaa atggctcgag gaggctgagg aggaagaata agtttttgat ttggagaacg 300
gccgaatgct ggccctaagtg ttactttata tttctgaagt tagaagtttg tggaggaatt 360
attgctgctg cctcttactg ccgagaactt tatngtatga tgtagccac atgg 414

<210> 52239

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-F1

<400> 52239

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tgtttcgatt tagcgacaaa tcagtttgct tcatgttgcg caggcttaga tctgaatgcc 120
ggattcttcg tcttacggct tgaatcgagc tgggaggctg tggatctgag cacgggaggt 180
acaacaaatc cgcgtgtatg acgagttgga tcggcaccgg ttagtctctg accgcaagat 240
tttgttgttg tggtgggctg atctgccgcg ttgttttgct tcaggttcta gagctagcga 300
aatcgcaagg ctattaggtt tcctttcgga gcgcgtctga agcgatgatg gctgaagtcg 360
gcggtgggat cgggatcttc tctggcctgc tccactcggg atgatgaatc tgctgcgctg 420
ataattattg gatgaatntc gataattatt aggatct 457

<210> 52240

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B5

<400> 52240

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gctatacttc ttcggacatt gtgaaggaat tcaataaaca tgacaaggag ccatcaaagt 120
acattaaaca ctggacgggc accaaaccga agactgggtgc aaaatacaca tgtgacattg 180
gatatgagcg attcctaggg cctgagatct ttttcaaccc agagatatat aacaacgact 240
tcaccactcc tttgcaagtt gttattgaca agtgcattcca atcatctcca atcgacacaa 300
ggaggggctct ttataagaat attgtcctgt ctggagggtc gactatgttc aaagatttcc 360
ataggagggtt acagcgggac ctaaagaaga tagtggatgc acgggtccgt gca 413

<210> 52241

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B6

<400> 52241

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ataaaaaaat taaaaaaaaa ttcataaaaa aaaataaaaa aaaatataat tttaactaaa 120
ttaaattaac atacactaaa ttttacaaca tataaaaaata taaaaaccat ttcttttccc 180
aactttataa a 191

<210> 52242

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B7

<400> 52242

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tacgccagga ggagggcctc gccgcaggtt ggggtgggagg cggagatgag cccggggcgg 120
tcgccggagc cgctggattt cttcatctgg actgtgcagg atgtagggtt atggttggag 180
gaaataaatc ttggaagcta ccgccaggct tttgaagaaa atggtgtcaa tggagagtat 240

ctagaaagcc tgtcgggtgtt caccactgag cagattcttc gctttataag acgatgccat 300
atgaaatggg gagattttat caccctctgt aaagagttga gacgcatcaa agttgcctgc 360
ctgaaagggg agcaggaggt ccgcaggccg tgggtgggcg cgatcatgcct gtcggtcgtg 420
ttcacgcggg ttgccaggca caaccggca 449

<210> 52243

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B8

<400> 52243

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ctccccctgc ctccccctcc cctcgagggt ccaggaccgt ctccctgcct gctcatccgc 120
cgctgcttcc cttctctggg ctccggagaac cggagagaag cgcgcgcggc catggcgctc 180
agcgcctctc ggttcatcaa gtgcgtcacg gtcggcgacg gtgccgtggg caagacatgt 240
atgctcatct gctacaccag caacaagttc cccactgact acatacctac ggtgttcgac 300
aatttcagtg caaatgtagt tgtggatggc accactgtga aattgggcct ttgggatacc 360
gctgggcagg aagattacaa 380

<210> 52244

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-B9

<400> 52244

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ggctccatcg gcaagcaggt gtggtacgac agggaggtga cggcgttcgt ggagcccggg 120
cggatgcacg gcctcgccgg ggtgaagagc aaggagctcc tcctctgggt caccatctcc 180
gagatcgtcc tcagccccctc cggcaccaag atcgtgttcc gcacccccgc ggggctcggc 240
cgcgccttcc ctgtcaccgc cttccagctc gagcccgcgg cggcggaggg ggaccacaag 300
gaggaggccg aggacgccgt cgccgtcgnc ggcaactgat ttgctctagc ttccggcggc 360

ggcgggccgtg cgtgggctgc tcgatccggt agtggcagtg gctttgtgag acagtcgag 419

<210> 52245
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C1

<400> 52245

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actacaacat ccagaaggag agcaccctcc acttggtgct ccgcctaagg ggtggcatgc 120
aaatctttgg gaaaccattg actggcagaa ccataacttt gaaggtgaag tctcttgac 180
cattcattat ggccaaagcc agaatccaga ccag 214

<210> 52246
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-002-Q1-K1-C10

<400> 52246

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aaccgaattc tgtacctctt gctgagtcct cgcagtttgg aagcaaagcc caatctagtt 120
ctgcaccctt tgctaaaacc tctcagttca agggcatggc tggaccaaatt tctgtacctc 180
ctgctgagcc ctctcagttt gggagcatga ttagacctaa tttggtacct cccgcatctt 240
ctcagttttt ggggagcatg gttcgaccaa attctgtaac tccagaatcc tcacagtttg 300
gaagcatgac cagaccaaac tctgtacctn ctgtatcgtc acagtttggt aacatgcccc 360
gtcaaaattt tgtgagcgca 380

<210> 52247
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C12

<400> 52247

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ccgccgcacc aagatctccg cgctcgcgct gctcaagatg gttgtccacg cccgcgccgg 120
gggcaccatc gaggtcatgg ggctcatgca gggcaagtgc gagggcgacg ccatcatcgt 180
tatggacgca ttcgcgctcc ccgttgaggg caccgagacc aggggtcaatg cccaggccga 240
tgcctacgag tacatggttg actactcaac catcaacaag caggctggaa ggttggagaa 300
tgtggttggc tggatatcact cgcaccctgg ctatggatgc tggctgtcaa gaatcgacgt 360
gtcaac 366

<210> 52248

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C2

<400> 52248

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gggtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa ggggcgcccc ttttaaagaa cccaacttta cttccccttc 180
atttcaaaat aaaagctttt ttaaagggcc cccaaattta aattaattgc ctttttttta 240
aaaacttcga aattggaaaa accttggttt tcccgaattt aatccctttg gaaaaaatcc 300
cccttttcca aattggctta attacaaaaa gcccc 335

<210> 52249

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-C4

<400> 52249

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tgcttgagag gattgcgtgg tgatgctggg ataatagagt gctcttatgt ggcttctcag 120
gtcacagagt tgcctttctt tgcattccaaa gtgcggctag ggcgatgtgg cattgaggag 180

atcctaccac ttggaccatt aaatgagttc gagaggtctg tattccatac tcgaacttac 240
aactactcag gttcttgttg tgaattgaaa gtcgcatgct ctgcattatt caacggccat 300
ttcacacatg ctttccgtcg agttatatat ctcagcaaat tagtttggtc agctactttt 360
cgtctacaac aacaggttca tcttgcccac tcatctgacc caccatgatt tggatccgnc 420
aggtngtagt agttattagg ctatggtcaa cata 454

<210> 52250
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C5

<400> 52250

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tacctgctgc cgcattctga ctccgggtgg gcggtggacc aggccatcct cgccgaggag 120
gagcgctctg tcattcatccg ctccggccat gactgggacg agacctgcat gcagatggat 180
gaagtgctgg cagcagtagc tgagaccata aagaactttg cggtcatcta ccttgttgac 240
atcacagagg tccctgattt caacaccatg tatgagctgt acgacccttc gacagtgatg 300
ttcttcttcc ggaacaagca catcatgatt gatctcgga ctggaaacaa caacaagatc 360
aactgggccc tgaaagacaa gcaagagttc atcgacattg tggagaccgt atacaggggc 420
gcccggaaag gccgtagtct ggtgattggc tccaaggact ac 462

<210> 52251
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-002-Q1-K1-C7

<400> 52251

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ctggtggcgc gccggacgcc ggcgcggatg ctgcaggagg cacggtgctg gaccagaagg 120
tgtggttccg cccgctcgag gacgtcgaga agccgcccc cgccgcgtga gccgcgcggc 180

gctgctaggg cagccacac tgctgctcgc tcataaaaag ggcggcgga gagcctggca 240
gtggcaggca ctctgctcgt gctcgccgg gctgggctcc ctgcttatat cactgcaata 300
ttatactact agtagtggtg cttgatagca gtgtgtggct gtgctaatac cagtataata 360
ctggttctac tataatacag tcgtatcagg catggcgtgc atcangactg gttgtgatag 420
tagcaacgtg atgctcgtgc cttgtataag aacaagcagg c 461

<210> 52252
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C8

<400> 52252

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gtcggccatg acggggaagg cgaagccgaa gaagcacacg gcgaaggaga tcgccgcgaa 120
gatcgacgcg gcgacgacga accggggcg ggcgaaggtc gggcaggcgg atcggctagg 180
gcaggacaag ggcgggcacg cgaagctggc gtgcccgctc tgccgcaccc cggcgcccgaa 240
catcaagtcc atgcagatcc accacgaggc gcgccatccc aagctccctt tcgag 295

<210> 52253
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-C9

<400> 52253

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaagaa aaaaataaaa caaaaaaaaa aaaaaagaaa agaaaaacaa acaagaatcg 180
gctagagcaa aacaagg 197

<210> 52254
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-D1

<400> 52254

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tgtaattggt aatctccatc catcagaata cttctatgcc aagcaacaag ccgactatgt 120
aatatctcag gctgacacga acaaagatgg acaattgagc atgaatgaga tgatcgagaa 180
cccctatgtc ttttacaatg ctttattcac agaagatgat tatggctttc atgacgagct 240
ccgttagttc ccaattcaac agcacaaaagc tttatggaat caccactgta ggaagtcgga 300
agactttgtt atgcactgct aagaccatct cgttttctg tctgaaatca tccatcattt 360
gacggtgatt ccatgtaaaa caagcatggt tttagatgca cctattctag aagct 415

<210> 52255

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A1

<400> 52255

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atcctcgatc gggagacgca gaggtcccg cgccttcggct tcgtcacctt ctccacggag 120
gaggcgatgc ggaacgccat cgagggcagc aacggcaagg agctggacgg ccgcaacatc 180
accgtcaacg agggccagtc ccgcggcggc cgtggaggcg gggcggtgg gtacgggtgg 240
ggccgtgg 248

<210> 52256

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A10

<400> 52256

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggggagggc cgtttaaaaa attccaatct tattaacact ttccagaaac ttaaaaaattt 180

aattatggcg caatatatatt taatttaaatt gcccgacttt ttaaaactta aaatttgaaa 240
 aaaacttggt attaccaaatt aaaatccttt attaaaaa 278

<210> 52257
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-A11

<400> 52257

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 attgatagag gaaaccaagc aattcgagaa attccactca acgatgatga ctgtgcatat 120
 cagtatgaag ctggttttcc actaggggtt gcattgcttt gtgctgctgg cttctttggt 180
 tatatgcttg cgatgctcca acgccggctt ttaggaatgt catcaacaac agatgatcct 240
 caagcgctn caagaccag cattgcaagt atccctccat cataccagaa gcctttaaat 300
 ccttatattc gtcattcatt catcccgaga gaagaaactg caaacagga aaccggagag 360
 gggttcttca ccacagctgg canactcatg ggaggggcaa aatcatctgt ggggtga 416

<210> 52258
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A2

<400> 52258

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 gagaacagaa aaccgagagc ctgatgaggc tctcctgggc gcttggtcac tctagacagc 120
 ctgaagatgt caaccggggc atcggaatgc ttgaagcttc attggacagg tctagcagcc 180
 cagaggaaac aagggagaag ctctacttgt tagctgttgg tcgttacaga actggggatt 240
 atacaagaag ccgacagctt ttggaaagat gcttagagat ccaacatgac tggagacaag 300
 ccataacttt gcaaaggctc gttgaagaaa aaacaaaag agatgggatg attggcatgg 360
 ctatcatcac aggcgccttt ggagttgtgg gtcttgttgc tgggtgggata attgctgcgg 420
 attcttcgtc atccaggaag ag 442

<210> 52259
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A3

<400> 52259

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gtcgcaacag ctgccgccat gtctgccgag aaccagctcg ccgctctggt cagcaacatg 120
tacgccacgg gtttgcttga cgatcagttc cagcagctcc agctgctcca ggacccccagc 180
gcccctgact tcgtctccga ggctgacacg ctcttctgtc aggacggcga gcggatcatc 240
gaagagctgg ccaaactgct ggagaagccc aacgtggatt ttgacagggg tgacgccttt 300
gtgcatcagc tcaagggaag cagtgcaaatt attggtgctc agaagggtta gaacacttgc 360
attcagttcc gcgaattctg tcagcagaag agcagagatg ggtgcctcag gtactggaga 420
caatga 426
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<210> 52260
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-A4

<400> 52260

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gatgcagcag ctggacttca gcgaggcgcc gtgggacgag gccgccggct tcgcgctcac 120
caagtaccgg tcgtacgaga tcgactggga ctccctctc gccaatat cgtcgccct 180
tggtggctgg ctggctggct ggctcccatc ctaccacac tgccgtcgtg cagcaagagg 240
aggggttaaag aagggttaacg gccgtcgcg agatgggatt ttagacatcc tgcgcgggca 300
ctagttggat cattagtgt aatccccgtg cgtccgttcg ttggttggtt ctgtgtaaaa 360
gttcgtccga ttcgattggg ccttgtcact ggtgagtcag ttgtagatct c 411
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<210> 52261
 <211> 384

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-A5

 <400> 52261

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 aatttcccag ttgcaacaac aatccttggc acatctaaca atacaaacca tcgcaacgca 120
 acagcaacaa caattcctac cagcactgag ccacctagcc atggtgaacc ctgccgncta 180
 cttgcaacag cagttgcttg catcaaacc accctgctctg gcaaacgtag ttgcaaacca 240
 gccacaacaa cagctgcaac agtttctgcc agcgctcagt caactagcca tgggtgaaccc 300
 tgccgcctac ctacaacagc aacaactgct ttcacttagc ccgctcgtg tggccaatgc 360
 acctacatac ctgcaacaac aatt 384

<210> 52262
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-A6

 <400> 52262

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 taactgtggt tagatcaggt tctactgctg ggataccgca gggcatgaga agtttggtgg 120
 cctcagggat ggatactata ttcattggcca gtgtgcgatc atcatgtttg atgtaacctc 180
 aaggcttact tacaagaatg ttcctacgtg gcatagggac ctgtgcaggg tctgtgaaaa 240
 catccgcatt gtctctgctg gtaataaggt tgatgtgaac aacaagcagg tcaaagccca 300
 gcaggttact ttccacagga cgaagaatct gcagtactat gaaatttctg acaagagcaa 360
 ctacaacttt g 371

<210> 52263
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-A9

<400> 52263

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aaaataaaaa aaaaaaaaaa aaaaaaaaaag gacagacatt ttaaaggaat ccaaatttac 120

atactaatac atacttttta tttttttttt ttttttgagt tcctaatttc atttcactgg 180

ccttggtata acaacgttat tatttgaaaa ccc 213

<210> 52264

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B1

<400> 52264

cccacgcgtc cgcccacgcg tccgcccacg cgtccggaga acacgatggg ggcatacaag 60

gctgcccagg acattgctct ggctgagctt gctccaactc accctattag gcttggactg 120

gcacttaact tctcagtgtt ctactatgag attctgaact cacctgatcg cgctgcagt 180

cttgcaaagc aggcttttga cgaggccatc tcggaactgg acaccctgag cgaggagtcc 240

tacaaggaca gcactttgat catgcagctc cttcgtgata acttgaccct atggacctct 300

gacatctcgg aggaccctgc tgaagagatt agggaggcgc ccaagcggga ctcgagttag 360

gggcagtaaa gccggcttta tgtgcctaga aactagtagc tag 403

<210> 52265

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B11

<400> 52265

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gttcaaagcg aagatgaaga aatcaaaggg caaacgggat cttgacacgt gccctcacc 120

aacaggttcg tcgccgacag attcagcaac cagagcatga aaaggtcaag agggccagtt 180

gcttacccta tgaccattgc ccgtgtttta ccagggtcgg tcaccattgt aaatcattag 240

tgttttctgg ccatcagccc ctaatcctta ctgtctctgt cagagctcat actcatgtaa 300

gcatcaggca actaggttgc tgatggctct aggctgaaaa aggatactga gaataaaactt 360
 ctgggtgtttg tttataccta tatcctgaac atggagtgga gtagatgagc tttaggact 419

<210> 52266
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B12

<400> 52266

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 cgactgttca gagtttgtgc aaaagtactt gcgtgagggc cctagaatgg tgcgtgacgt 120
 gttacgaatg gccaacgaga atgcccagac aatcataatc attgatgacg ttgatgctat 180
 agccactgct cgttatgatg ctcagactgg tgctgaccga taagttcacc gtattcttat 240
 ggagctactg aatcagatgc gatgggatag atcaaacagt cgatgagaag gctataatgg 300
 caactaatca tgcatacact ctagatcctg ctatgctgag tgctgctaga cttga 355

<210> 52267
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B2

<400> 52267

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 cgccgcgcga ggccgcggg tacgggtacc agcagcaggc cgtgaggccg cagaagaaga 120
 agaacaactt cgggatgggg ctcggggccg ggctgctcgg aggcgcgcgc gggggcctcc 180
 tgatcggcga catgatctcg gactcgctcg cgtacgacgc cggctacgac gccgggttcg 240
 acgacggcgg cggcttcgat ttctagcgcg ctccggtggc atgggtggtg acgccacgcc 300
 gcgcatcaga gacggagagg ttcccgtttt ggatttgcct tttgtgattt gtttccttct 360
 gtacgcaatc tatgtaattg tcggaacgaa atcaatcaag attatgcata 410

<210> 52268
 <211> 416
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B3

<400> 52268

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gggctttcttc cattgatcca gtcttctgaa gctgggtctgg tcaagggtga cttgagtggt    60
tgcaagaaca ttacagatgt ggctgtctcc tccctgggtga agggacatgg aaaatctctg   120
aagaaaatca accttgaggg ttgcagcaag ataacagatg ctatcctctt caccatgtct   180
gagagctgca ccgagcttgc ggagcttaat ctttcaaact gcatggttag tgactacggg   240
gttgccatcc tggcatctgc aaggcacctc aagctccgtg ttctctcact gtcaggctgc   300
tctaaggtta ctcagaagag cgtgctgttc ttgggcaacc ttggccagtc tatagagggc   360
ctcaatcttc agttctgtga catgattggc aaccacaaca ttgcatcgct ggagaa       416

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<210> 52269

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H6

<400> 52269

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ccggtctcgc cctccctca cgccgctcgc cgcgtccggc cgcggaacc cgacctgcgt   120
caatcgccat gactacctca aggcgtcttg ccgataggaa gatagcacga tttgagaaga   180
atatcacaaa gaggggctct gttcctgaga cagtcaagaa ggcaaatgat tatcctgttg   240
gacctattct tcttgggttc tttgtcttcg ttgttggttg atcatctctc tttcagatca   300
tcaagacagc atcaaacgct gggtttattct gaggacaatt ggtcacttac ttttagtcac   360
tctaaagtcg aggaaccagg gtgacatatg cagttgggtc cttaaaaact atacaagtg   420
atggcgtaac tg                                     432

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<210> 52270

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G12

<400> 52270

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tctgggaaag tgaacctat acgcctgac atttctaca aaacattacg atgatgccag 120

tgaacaatct tatactctac gatgatacac ttgcgtctta agttaagata acccctacta 180

ggaaaatatt aagctcttcg tcattagagc cataccatct ctttgattaa cctgaaccaa 240

acttgggtgga ttcttagacc ggagagactt atcactgaaa cgtacacgtt gtctgaatag 300

tgattccaac ttacactcct gccatgctat tattgctact atgcttggt 349

<210> 52271

<211> 415

<212> DNA

<213> Zea mays

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<400> 52271

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cgtcggacgt tgagtaccgt tgcttcgttg gcggcctcgc ctggggccacc gacgaccact 120

ccctcaacaa cgccttcagc acctacggcg aggtcctcga gtcgaagatc atcctggatc 180

gggagacgca gaggtccgc ggcttcggct tcgtcacctt gtccacggag gacgcgatgc 240

gcagcgccat cgagggcatg aacggcaagg agctcgacgg ccgcaacatc accgttaacg 300

aggcccagtc ccgcggcggc cgtggaggcg gcggtggcgg atacggtggc gggcgccgtg 360

atggatgcgg ctacggcggg ggcgggtggag gctactgcag tggtcgtgga ggcta 415

<210> 52272

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-G3

<400> 52272

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cgtcgcgtcg actcccaaga tggataagct cagtggttct gcacgtctta tgattgtttc 120

agatcttgac catacaatgg ttgatcatca tgacgaggag aacctgtcct tgcttagggt 180

tgggtgccctg tgggaatctg tttactgtga ggattctcta ctagtcttct cgactggaag 240
 atcaccaact ctttacaagg aattaaggaa agagaagcct atgctaactc cagacatcac 300
 tatcatgtct gttggcactg agataacata tggngaggca atgggttcctg atgatggctg 360
 ggaagaatat c 371

<210> 52273
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G4

<400> 52273

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 cactaccggt acctacagaa ggtgtacaga aagagactag accaaacaag aaatcaaaaat 180
 gggataaggt tgatgggtgat gttaagaacc atgtgggttcc tagtggacac gacaacttat 240
 cagcaactac tgccggcactc ttgacttcag ctaatgttgg tgctggatac gctggttttg 300
 cgcaacaaaa gagaaaagag gccgaagaaa agaaaaacga tcataagtca gacagaagat 360
 cgtagcacca ccttttgttt cattctgagc agtcagcgta tcatttattt tttttcagtg 420
 acatagtttt 430

<210> 52274
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-G7

<400> 52274

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 gtagtgcggt tgtggttgag cgtgtgaagg tgcttctgga aggtcaccct ggtctcctcc 180
 gccacttcaa ccagttcctg ccatggggtt acataagggc tcatggacca gtcgggagga 240

tcagcgtctg atgcagccag ggcagggag cgcgtgtggc tacctaaaca agcctaaacc 300
tactagctgg tgctttccat cgcataatg gcanaatggg acaagagtat ctggttggcc 360
cgatcatgact gctattctgc atgggcagta ccattaagac atgta 405

<210> 52275

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G9

<400> 52275

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aggtggcaact gcagtcttgc cttcaactgc attgatgctt gctgtgcctg cacagattgc 120
tggatgcaaa actattgttc ttgccacacc acctagccgt gatggttagca tatgcaaggc 180
acacttgata tggaactgca ccgggattct tttttaaaca attggttgat ggagcattat 240
atacttgttt cctgcaggag gttctttact gtgcaaagaa agctggtgtg acacacatat 300
tgaaagctgg aggagctcat gcaatctcag caatggcatg gggaactgca tcttgcccaa 360
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agaacagtga agctatggta tctatagaca tgcct 455

<210> 52276

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H10

<400> 52276

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acctccacac cgccgacggc ctcaagtccc tcgaggctca cctcgccggc aaaacctatg 120
tgtctggtga ctccattact aaggatgaca ttaaggctct cgccgcggtg ccgtcgaagc 180
ctgtcgctga gtttcctaata gccgcccgt ggtacgagac cgtctctgcg gctgtagcct 240
caagattccc tggttaaggct gttggtgtaa atctgcctgc gggatcagct cctgcggcag 300
ctgtcctcgc ggatgacgct gatgacgatg atgacctga tctttttggg gatgaaactg 360

<210> 52277
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H11

<400> 52277

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cgggtccgaa gacagtttgt gcgacagtct gagcaggatg atcaaacagc gcatgggttca  180
gaaagatgac acgtaatttc taatacaacg tatcatcttc ttcggcatat ctgagaatta  240
tgcggtatctt cctattgcgc atcttcgtcg acagatctga caattaagtg gtccttgcca  300
ttgctgatag tagcccaactg attcccaacg ttagagtaca caatatataa gactctagct  360
gtcaatttct gtgattgact gcatatgac accctagcgc tatggagtca acaatgtaat  420
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<210> 52278
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H12

<400> 52278

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actcagtttc tacgacagtc tgagcagtat tatcaaacat cgcattggtta acaaagacta  180
cacgtaattt ctaatacaac gtattatatt acttcgccat atctgagaat tatgcggatc  240
ttcctattgc gcatcttcgt cgactgatct tacaataaaa tgttccttgc cattttctgat  300
agtagaccac tgattccaaa cttttgagca cacactatat aagactctag ctgtcaatta  360
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actatggtt                                     428
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<210> 52279

<211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H2

 <400> 52279

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 taatcatcag ggcactacgt cttcaacaac ttgtgctaac aaaacttgca gcctactctc 180
 agcaacagca gtttctttca ttgaaccaac tagctcgatt gaac 224

<210> 52280
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H4

 <400> 52280

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 gaagcatgct ggagcctact ggtttgaag tccaaactat ggagtattta cctgggatga 180
 caaacttcca ggagctcagg ttcttctcag caggttgcga ctcttcctaa gtccagggtg 240
 cccttacgaa gaaatactga ggacattcca caaccaaacc gacaatgtta tgtgctcata 300
 tctgcctcta ttcaattcat tcaacttcac taaaggagga ctaatacaac tcaaccatgg 360
 aaggcctcag ccacttcagt atgctgtcaa 390

<210> 52281
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-H5

 <400> 52281

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gagaggccta tcacatctttt actgtcaaat ccaacctctc attctgaatg tactgctgaa 180
gaagcatata actggactca gggtcgtgta atatttggcc agtggcagtc catttgaccc 240
tgtggagtac gatgggaagg tttttgtacc tggacagtcg aacaacgcct acattttccc 300
tggatttggc cttggtcttg ttatctctgg agccatacgt gtccacgagg acatgct 357

<210> 52282

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E7

<400> 52282

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ttgcgaagaa tgagggaagc atcaagcgag ctgtgatgga gctcattgcc agggagaaga 120
aggacaagtg aagatcgtgt gctatctaag tatatattcg taaataatga gacggctgtg 180
cactgcgggt gcagccctgg tgcgtctcag agcttgcctta tggatgaactc ttcgtgttag 240
gtttcttctt tatatctgtc gtgtctgcgg tgtcgatgaa ctatctagta tgtggagcgt 300
gtgcgtctca gcagttaccc tgccatgcca cgtggactgg ctgtcgtgcc tactgtctgt 360
taccatgtat atatataaaa aatgatgcgt gg 392

<210> 52283

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E9

<400> 52283

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aaaaggaaat taaggtggac gagtacatta cgcacaacat gaacctggct gacatcaacg 120
acgccttcca cctgctgcac gaaggtggct gtctgcgttg tgtgctggca atgcagattt 180
gaaattccta agctaagcag tttttgtttt ggaactagaa ctcttttttg cctcgttagg 240
cctggacccg ctgtataatg ctatgttgtg ttggatggct gacgatgggt actgctgtgt 300
tgctagcaat gtggtacttg atctgtatca cggatgcaaa taagtgtgtt ttctaaaaca 360

ctccctctcg gtgaataagg ggttgtttgg tttaggaat cattcca

407

<210> 52284

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F1

<400> 52284

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attatctgaa actactggaa acctacagcc ggctgtagtt ggatgctttt gcttgcgctg 120

atatgtttat ggaagcatca gtgttgccga tgaatataat gacgatcatt cta 173

<210> 52285

<211> 465

<212> DNA

<213> Zea mays

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<400> 52285

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ataagtcgac tgtgcttgac cgagcaatga tcgagcataa tctccttagt gccagtaaac 180

tttacacaaa tatcagcttt gatgagcttg ggacattact ggggattgat ccaaggaagg 240

ctgagaagat agcatctcgg atgatttatg aggatagaat gcggggctca attgatcagg 300

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ttgctggact gtgccaaagg ctgaacgaca tccttgacag catgtcaagc atgggaataa 420

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<212> DNA

<213> Zea mays

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<400> 52286

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 cttcaacaag gtaccatgat tccatatgat cctacttttt ttatcctttt atactagaat 180
 agtgtgecta tcgaggatgc atgggtttcta tcttgcgtgaa aattccattt atgattcttc 240
 aggtgcatgt tttatgcagc agaaaagggtg ggacacagaa gctgcatcac cttttttgac 300
 agcagttggg ttatctgtat caaattacgc ctttttatgc acatgtcata tgcagtgcgtg 360
 tgcatactctg aaagtttgag tataacaaat gcctgaatcc aagaatccct gttatgcaga 420
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<210> 52287
 <211> 457
 <212> DNA
 <213> Zea mays
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 <400> 52287

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 caggaacctc atgccgtttc gccacacttt gctcagtttc tgatctttgg ctttgtgtca 180
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<210> 52288
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-F2
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ctaaccacac cctcccatga ctagcatagt atgttacacc cttcccatta ttaacataca 120
 tgttggaaac cattccataa gttgtccatg gcactttcct gaatccaatg gctgtagacc 180
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<210> 52289

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F3

<400> 52289

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 gccctgttgc cttcttgaca caacaacagt tgttgccgtt ctacctgcac gctgcgccta 180
 acgttggcac cctcttataa ctgcaacaat tgctgccatt caaccaactt gctttgacaa 240
 acccaacaac gttctaccaa caaccatca ttggcgggtgc cctcttttag attgcctaata 300
 gagttatagt tcaataatga agtttttttg atgatgtttg ggctttccag aaattaagac 360
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<210> 52290

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F4

<400> 52290

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 tatatttttag caagctggca gttgatgtga ttctctatgt ttacattttg tcaaattaac 180
 gacaagaggg ttaagtttta gaagcaacta ccttgcaactg gtttaataata tctgtgagga 240
 cccaagttgg tcccagtcct cttcgattgg tgctctgttc ctgtgatttg aggaaagttt 300
 cagtacatca cattgtattt tgattagtga atgaagcatt tagacgatat tgttgcatgt 360
 gtgcattctc tttcttacat ttgagttaag ctttcttatt tgagctctat gatactatgt 420

actcaatac

429

<210> 52291

<211> 403

<212> DNA

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<400> 52291

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tcccctcccg ccgcgtcaca tcgccgccgt cctcgtgccc cgttacctct aaaaccctag 120

cggggagccg ccgagccggg gatgaagatc cagtgcacg cgtgcggggc cgcgaggcg 180

cggggtgctgt gctgcgcgga cgaggccgag ctctgctgct cctgcgacga ggaggtgcac 240

gccgccaaca agctcgccgg gaagcaccag cgggtgccgc tctgacgga cgccgccgtc 300

gctgccgccc cagcggcgcc ggccgtgccc aagtgcgaca tctgtcagga ggcttctgga 360

tactttctct gcttagagga ccgtgcacta cttttagtag act 403

<210> 52292

<211> 281

<212> DNA

<213> Zea mays

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<400> 52292

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taaataaaaa acacattaaa ggggggaaaa aaaaaaaca atacacatac aaaccacaca 120

tcctcatcct tcccgaggtt cccacattct ttccccctt ccattgctat cattcctttc 180

cggtcctccc ctattccatc gtccttaat gctgttcccc acctacctga ctttcccccc 240

ctttgttcac accttctttc tgttccctct ttgttttccc c 281

<210> 52293

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F7

<400> 52293

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tggcggcgga ggacgcgtac ccgtacagag cgcgccaggc gtcttgcaag aagtcgccgg 120

ccccggtcgt caccatcgac ggctacgagg acgtgccggc caacgacgag tcggcgctca 180

agaaggcggt ggcgccaccag cccgtgtccg tcgccatcga ggccagcggc tcgcacttcc 240

agttctactc cgaggggggtc ttctccggca ggtgcgggac ggagctggac cacggcgctcg 300

cggcgggtcgg ctacgggtgtc accgcggacg gcaccaagta ctggctggtc aagaactcgt 360

ggggccccga atgggg 376

<210> 52294

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F8

<400> 52294

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catatgctct attgcaacag ccatccttag tgcattctgta tctccaaaga atcgcgggcac 180

aacaactaca acaacagttg ctaccaacaa tcaatcaagt agttgcagcg aaccttgctg 240

cttacctcca gcaacaacag tttcttccat tcaatcaact agctgggggtg aaccctgcta 300

tctacttgca ggcacaacag ctactaccat ttaaccaact tgtcgggagc ccttatgcct 360

tcttactgca acaacagctt ctgccattcc atctgcaagc tgtggcatac attgttgctt 420

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<210> 52295

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-F9

<400> 52295

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aatagctgat atagtcaaga agcatccgag gcttttggtt ttatctgatg aaatttatga 180
gcatattatc tatcagcctg caaaacacac aagctttgct tcactacctg gaatgtggga 240
aagaacatta actgtaaatg gtttttctaa ggcttttgca atgactgggtt ggcgctcttg 300
ttaccttgca gccctaaac attttggtgc aacatgtgga aagatccaaa gccagttcac 360
ctcaggtgcc agcagcatat cacagaatgc aggggttgcc gctctgaatc ttggctatgc 420
tggtggtgaa gcagtatcaa ctatggtc 448

<210> 52296

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-G10

<400> 52296

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ggaacagaca ctgaacaacg ctcgctccggc tcctgagaag aggcagcggg ttccgctcggc 180
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ccacagggaa gccttcagca cagcagccaa gaactgggca cattatccga acatccattt 300
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ggtggcgggtg gctccgaaga agatccaagg tttctactga tcgatgccgg tcgatcgatg 420
gatcagcgct cgtcgtcatc aactggccgg acgggtgtg 459

<210> 52297

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E6

<400> 52297

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acgatgggtcc gggagcagga ccggctgatg cccgtggcca acgtgtcccg catcatgcgc 180
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cgcaagaccg tcacctccga ggacatcgtg tgggccatga gccgcctcgg cttcgacgac 360
tacgtcgcgc cctcggcgc ctcccttcag cgcattgcgc acgacagcga ccacggcggt 420
gaagagcg 428

<210> 52298

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D11

<400> 52298

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gatcgtgga agcttcgtca gccgcgtcct cgccggcaag gccgcctcgc cgaggagggc 180
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cggcgtcttc ggcccggcgg cgggtggacc caagctggcc gctggtggcg cgccggacgc 360
cggcgcggtat gctgcaggag gcacgggtgt ggaccagaag gtgtggttcc cgccgctcga 420
ggacgtcgag aagccgtccc ccgtcgcgtg agccgcgcgg cgc 463

<210> 52299

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D2

<400> 52299

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taagcaattt gcaagccaag tcaaaggaaa ctgaagaagc agaactcaa atgctgagaa 180

agagtttgaa tttcaaggca acaccaatgc caagctttta taaggaacca acccctgcca 240
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 aaaacaagtc catatcagag actgaagaaa atactactac ggaccaacct gcccgctctga 360
 gccttgactg aaaggtttct caaaacggtg tgaaaaaacc aaccccgctcg agttcagcaa 420
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<210> 52300

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D3

<400> 52300

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<210> 52301

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D4

<400> 52301

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agcggcgggga ctggcacacg ttcgggcagt acctgcgcaa ccaccggccg tcgctggagc 360
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<210> 52302

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D5

<400> 52302

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 gccagcagca cgggctgtca agcagggtc caacgaggtg ctctcgtca tcgaggccta 420
 caagacgc 428

<210> 52303

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-D7

<400> 52303

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 caccgcatcg ttccactcgc tgcaccacac gcagttncgc agcaactact cgctcttcat 420

gccgttctac gaccacctg

439

<210> 52304

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E1

<400> 52304

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gtggatttct tgagtgttta gctcatgcat catacataga aagctctgta aaattttact 120

ggccaagtga tgcctaacac tgaccggcca tttaaattga actgggtcatc gtatagcatg 180

tttgaaacgc gatctgaact ggctactgat cactcgatat ttgatgccca tctagctgct 240

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<210> 52305

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E11

<400> 52305

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gcaagaatat tggcacttca cctagtccaa atgggttctgc tgtagtcaag aagcaaattgc 120

caaaggagag caaaaaggaa gttgctactg agagaagatc accaccaaag cttcatagga 180

gttcgccaac accagcgagg acttcaccaa caaagctcag tccagcagca aagcagaatg 240

gaaactctgg tccagtttct tctgtatcta ctgttaaaaa aagagttagt gaaactatct 300

cttgggactc cctcccaaca agcctaata attcaggaaa ggctgttgctc cggaggaaga 360

acattgctct tattgtagcg gctgaggctc aaagggaagc tgctgcagct gcgtatcttg 420

taaaaggcct tgggtaagta ggcccatacc cagatatctt atatgatata gtaa 474

<210> 52306

<211> 446

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-E2

 <400> 52306

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 ccgtcgccga ggccgtgcgc acggggctcg tcgcctcccg cgaggacctc ttcgtcacgt 180
 ccaaggtctg gtgcgccgac gcgcaccggg acaggggtgt cccggccctc cgccggacgc 240
 tcagcaatct ccagatggaa tacgtggacc tgtacatggt gcactggccc gtgaccatga 300
 aggccgggag gttcacggcc cccttcacgc ccgaggactt cgagccgttc gacatgcggg 360
 ccgtgtggga ggccatggag gagtgccacc gncctgggcct ggccaaggcc atcggcgtgt 420
 gcaacttctt ctgcaagaag ctcgag 446

<210> 52307
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-E3

 <400> 52307

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 tgcttcagca tccatggctt gatgttggtc ccctccgaca gcaacctaaa acacggccag 120
 agtcagcacg gagtccaggt gatggtgttt cagagaagca aaagaaagag aaagaagaaa 180
 gagaggcaat ggccgtagag ttagggaaca ttgccataga tgggtgcttct tccaggatgg 240
 caaatgacct ccaatcaagc acaataaaac aaccgctacc tcttctaaga agtgagctgc 300
 atttgatttc atgagttaag ctgtaaaact tgttttcatt cgagaattgc tccatgagtg 360
 ggaaacatat gtttttttta ggtttgagat atggtaagat agctaccgag ggaaaagaa 419

<210> 52308
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E4

<400> 52308

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taaattagag aaggaccttg ttaatatcgc tgtagaagat tctgtggata gtgatgatgg 120
aggcaagtca cttatcagag agatgccgcc atatgaagct gaaaatgcaa ttgctaattct 180
ggtgaaagtg tggataaaag atagagtaga cagactcaag ggatggggttg accggaattt 240
gaagcaagag acctggaatc caggtgccaa cagggataat tttgctccct cttctgtgga 300
gatgcttcgg gttattgggtg aaacattgga tgcatttttc caattgccta taccaatgca 360
tccagctctt cttcctgata tgacagctgg gctcgacaga agcctacaac tttatgttgc 420
taaagcaaaa tctggctgtg gaacacg 447

<210> 52309

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-E5

<400> 52309

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ctcaactgaa aagtgtggta gataactaga tgttcatggc actgtatcac attggttgca 120
ccgtgccttg catcagtgtt gtgttactgt aggggtggcta cgctgtcct aaggatatgg 180
ccagcagacc gtgcatgtgg cagtgtgtgt tgcacttaaa ttatgatatg ggaggggtaa 240
ggctggagat agcttaacca gagtgggtgg ggtgctgtga tctagtggca gaatgtaaga 300
aactggctac accttttaca agctgcgtgt tggagatgta tggngctgtt tgcgttggat 360
tgaccgctgc agttgtaatc tatagag 387

<210> 52310

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D10

<400> 52310

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gagattacta tatacagggt cgtgatcaaa ctttgagcag aataaagagc aatattgaac 120
tcatagtagc gacaaatggt ggaaataggg tgggtggtgat cccacactcc atgggggtcc 180
tctattttct gcatttttacg aaatgggtcg aagcacctgc tcccgtgggg ggcagtgggtg 240
gtccgaactg gtgtgagaac catattaaag ctgtaatgaa tattggagga tctttcttag 300
gagttcctaa ggctgttgct gggcttttct catctgaagc caaagatggt gccgttgcta 360
ggtataaggt aattgattca tttattttaa gcaaaagggg atagcaaaag aatggaatat 420
tattggatgc tcgacaagct tggc 444

<210> 52311
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-001-Q1-K1-B4

<400> 52311
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gatggcacc cagatactgg ctactatact caggctggca gaaaaactct ggcagacaat 120
tatgagtacg tcatgcaagg gaagctttac aaaatctcag aagacacatc atccagccaa 180
aacgctaaag tggagatgta tgcacgttcc ggcgggcttc ttatgctgct caggggtgac 240
ccttccactg ccgctagctt tgagcttgat cagaggctct ttctgctcat ccgcaagggtg 300
taaaactgtg gttgctgacc acttangtgt ttgccttgct cgccacttat ttaatttcca 360
tccgtgggtg aagctgttat atactggtgt aagtactggt ttctgtatcg ccatggattt 420
at 422

<210> 52312
<211> 429
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-001-Q1-K1-B6
<400> 52312

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cttatgtgtg gcgaaggctc aggtctattc acagagttat ccgatcgaga gcttagtctt 120
tacacaagca tccttgcgag gcacttcaat gacgactagg gaaagcttcc gcgcttcttg 180
atacctcatt aaaaaaata ttggagtcgt tgatcttgtc ttgcgtctct atcttaatca 240
tgcttccacg ctttacttat tatttaacta gtttgtgtgt ttatttttct agtttagatc 300
gctaggctaa gtgatatgat tgatacatag gttgtgtaac cactcctttg cggttgcggg 360
agggatatga acacacatat aggtaagcct agtggttagt gatatntgca tacctcgaag 420
tcttgagtg 429

<210> 52313
<211> 401
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-001-Q1-K1-B7
<400> 52313

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tgaccacgag agcaacatgg gcggaggaca cgacatgcac gggcagcact acggccacaa 120
cggcggcgtg aagggcttcg tgtccaacct cgtccacggc ggcggcggcc atggccatgg 180
aagcggctac ggccatggcc atggaaacgg ctacggccat gggaatggcg gtaacggcgg 240
cggccacggg tacccttctc ccgcgcgcgt cggcgcgtac cctcattcgc acggcgcgta 300
ccctacccg cacggcggcc acgggtaccc ttcttccgtc acctaccccg cgcaactcggc 360
gcactacggg cacacggggt cgtaccacac cagccacaac a 401

<210> 52314
<211> 106
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-001-Q1-K1-B8
<400> 52314

gggaaacatg ggaacttcga tttctagatc tctactgcta tttttctcca aaaattgtaa 60
taaattttga tagtcattgg tcatttagtg gattttcttc taagcc 106

<210> 52315
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-B9

 <400> 52315

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 gtgagccgga tcagcccggc agctaaatta ctgatcaagg aacatggact ggatacatca 120
 tcaactgagag catcaggccc ccgtggcacc cttctgaaag gggatgttct ggcagcattg 180
 aagtcaggta tcaattcaag ttcaacaaaa gaaaagaagt ctccagctca accttcgtct 240
 cagccaactc gagattccca atctcaagca tcctctatct cacaaaagga tgatacatat 300
 gaagatattc cgaatagtca gatacgcaag gtcattgcc aaggttgct cgaatcaaaa 360
 cagacgactc cacatttgta tctatccaaa gatgttggtc tggatccctt gctcgctttc 420
 aggaatgaac taanagagct acatggcatt aaagtttcaa gtaatgacat catcat 476

<210> 52316
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-C10

 <400> 52316

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 tacgaagatt gctacgtata tgggatattc ttgctgatac atttgtgtaa gcatgcacgc 120
 cctcgcactc aactgatat aggagagaat ttagatgaga ataaggatga cagttaacta 180
 ggcaggaagg catgtatcca tgactagact gaatacctga ctgggcataa ttgcagctgt 240
 tagggctagt gtgcagccta atgtgcacaa tgaagtttca ttggaacaaa gataattaga 300
 atataaatcc tttgaaaaat gataatctct aggaaaaact catgtgccaa actagccctc 360
 aaacatatgc tgacaaggaa tcagtccatg aatcacagga tca 403

<210> 52317

<211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-C11

 <400> 52317

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 tatatatgca tcatccatct acctgtgtgg tgcaaaattc tgaataaaac ctgaataaaa 120
 cctgattgag caaaagaaaa ataaaaaaaa agaacgcaca acagaaagca caaaagacga 180
 cacagcagaa ccacaaccag atgagaccga tgataaact tcatatggag atcacaaagt 240
 tccgaagaca tccattcttg aaagataata aatctctctt ataggcgatg tgtcgcataa 300
 gcctgcagtg catgaagact gtccttagca tccagtacat ggccacatca caactcctac 360

<210> 52318
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-C2

 <400> 52318

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 cttctagcgt cgtcctctct tgtctgtgca agcatggcgg tagatgggca aaccaaagag 180
 gacatcaacg caacgagtgt gacgagcatg aacatgacga ggctcgtcgtc ggcgagctac 240
 aacatgactg gcggcggcgg agaacttaac agaggctcgt gcgtcgtgag atctggattc 300
 tactggtgcc agaacattgg ctatccgacc atgtcggagt gcttgaagaa ctgcgaatcg 360
 taaagcactg gagtatagaa aaggaataaa gtggtctctg ctagcttaa 409

<210> 52319
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-001-Q1-K1-C3

 <400> 52319

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 ccgccccatga tacagtatgg actcccataa tccatgcgac aatgacttca taggccatgg 120
 acctattaca tggcgtccat attggacgac ccgcccagcc aactgagatc gccactagct 180
 tcaagatctt ggctatccag gacagcagct atatctcagg gtagagtttt catcccaatg 240
 gcagagtagt ggtaaaccga tatgttttac gctttttatg aatgtagtat aacgtatgaa 300
 aactttttctc t 311

<210> 52320

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C6

<400> 52320

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 cccgccgtac gccgcaaggc cgactggggc atgcgctgga tcgacggcgg ggagcgcttt 120
 gccgagcgcc tcgttgctt cgctgcgtc gagggcatct tcttctcggg ctcttctgc 180
 gccatcttct ggctcaagaa gcgcggcctc atgcggggcc tcactttctc taatgagctc 240
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 ggcaagctcg atgagtcgag cgctccgcgag atcgcttgcg acgccgtcga catcgagcgt 360
 gagttcgctt gcgacgcgt ccccgtcgag ctggtcggaa tgaacggcgg gctcatgagc 420
 cagtacatcg agttcgtcgg cg 442

<210> 52321

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C7

<400> 52321

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tttaaaaaaaaa aaaaaaaaaa aaaaaacaaa 60
 tgggggaacc aaaaaaaaaa aaaaaggggg aaccaatttt aactccgcgg ggagggggac 120
 gtcatatccc ttccttgggt gtcctgggt gccagtcttt gggggtcgtt ttttggccgt 180

ttcgtctgtt aaacccctgg cgtgtcttca ccttttggcc tgggggggtca ttcccgtttg 240
 gcccggtact gtcttggctt cccggccctt ttcggtcggc ctggcgaacg gttttccgcc 300
 cgggacgggtt tatgggtcgc gccctgtacc ggggcttttt gcccg 345

<210> 52322

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-C9

<400> 52322

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 cacagccact actaacaatg accatttctg aaactctgaa gtatgagtac agcctaactt 120
 gtccaatttg cttggacact ttgttcaacc cttatgcgct tagctgtggg catctgttct 180
 gcaaagcctg tgcattgtgt gctgcttctg tctacatctt ccagggtgtc aagtcggcac 240
 ctccggaggc caagtgcctt gtctgccgag cggttggtgt gtttgatcgt gctgtgcgta 300
 tgactgaact agaattgtc ctcaagagaa gggacaaaga ttactttctg cagagactgc 360
 gcgaagagcg aagtgtgatg gtgaagcagg ccaaagaata ctgtgactca caggcaatgc 420
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<210> 52323

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-B2

<400> 52323

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 tgaatactcg gggagtgaga gggaggagtc agagtacgaa acggatggcg aggatattga 120
 acattcactg cctcgtggaa gaagggagga cgagctggat gaggaggaag aatacgagga 180
 agatgttgaa gaagaagaag cgcctctgtc ggatgaagaa atggaggtat gatattcttg 240
 cctagattca gattcttctg aagctaacat atcaaagaac ggaacaatac ttcatgtctt 300
 tacatcagac aagaaggttc acggaaatca gttcagagga gggggcattg gtgtagttct 360

ttttttcttct tctaaataat caaaatggga ctgcgatgc atgcaccgaa acgtaagaga 420
gaatcagggg gtg 433

<210> 52324

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A11

<400> 52324

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agtgtctaaa ggatgaacct gaggagccaa ccttggggcg cgtggagaaa ccttaccagg 180
ccccctttgc tagggtgaca tcgctggaga atgcatcaga caacagtcca ttacctgaat 240
cacttgcgca tgcaaatagc attaaggctc gagtgacctga gcctgtgtac acagtttcag 300
ttgagggcca tgtggttaagt gaaaagcctc gaagcaaaga gccaaaaggc ttgaggaaac 360
ttttgaaatt tggcaggaaa agccatgctg agggcgcaat ggattcatca gttgacgaag 420
cctcagcagg agatgggttcg atgctgaaga atctcatttc tcaagatgac tctgggtg 477

<210> 52325

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-A12

<400> 52325

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gaagcaggaa gcaagccgat cgctcgctga ggcgcccgcg cgatggccgt cgcggtgccg 180
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ctgcgcgtcc tggtgacggt gaccgtcctc gggagcgccg gcccgttgcg cttcatcgtc 300
ctcgagggcg acacggtcgc cgcgctcatc cgcggcgcg ctcgctgcta cgcccgcgag 360

ggccgcatgc cgctgctcgg caccgaccct gccggcttcg tcctctccac cgncaacggc 420
ggatccggcg cacttcgaga agacgagagg atcagct 457

<210> 52326
<211> 413
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-001-Q1-K1-A3
<400> 52326

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acccaagggt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacgggtgc ttgtgttatg 240
tttagatgat agtccgctca agatcatgcc ccatactatc tagtgtgtac ttgtctatct 300
cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
ggagccccctg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gct 413

<210> 52327
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-001-Q1-K1-A4
<400> 52327

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ggcggttacg cacacggcgg cgtggaagcg ccgacggtga tgtgccagga caaggggccc 180
tgctacggca agaaggtggc gtgccccaaag cgctgcttct ggtcctacag ccgctccggc 240
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accgtcacct gctgatggat cgacgggtag agctaactag ctatctgctc atggctctcc 360
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tatatatata tatatata 438

<210> 52328
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A5

<400> 52328

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 acccaagggtt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
 gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
 tttagatgat agtccgctca agatcatgcc ccatacctatc tagtgtgtac ttgtctatct 300
 cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
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<210> 52329
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A7

<400> 52329

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 acccaagggtt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
 gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
 tttagatgat agtccgctca agatcatgcc ccatacctatc tagtgtgtac ttgtctatct 300
 cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
 ggagcccctg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gct 413

<210> 52330
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A8

<400> 52330

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cagattgtag gagatgatct tctcgttacc aacccaccca gggtcgcca ggccatcaat 180
gagaagacct gcaatgctct cctcttgaag gtgaaccaa tcgggtctgt gaccgagagt 240
atcgaagctg tcaggatgtc caagcgcgcc ggatggggag tgatggcaag ccacaggagt 300
ggcgagacag aggacacctt cattgctgac ctctcagttg gcctgtctac gggccaaatc 360
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<210> 52331

<211> 474

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-A9

<400> 52331

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aggcgatccc cgtggctctc ctgctcctcg tccctggttg tgccgcctcc tcgttcaagc 180
atctcgccga ggcagcagac ggcggcgcgg tgccggacgg cgtgtgagac ggcaagtgcc 240
gcagccggtg ctgctgaag aaggccgggc ggtgcatgg cctgtgcatg atgtgctgcg 300
gcaagtgcc gggctgcgtg ccgtcggggc cgtacgccag caaggacgag tgcccctgct 360
acagggacat gaagtcccc aagaaccagc gcccgaagtg cccctaggcc ctaccgctct 420
aagggaggga ggatgaccca ngatttcgct cgcgatcctg cacagcttct agtc 474

<210> 52332

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-B1

<400> 52332

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 acccaagggtt gttgaggaga ctgttttctca caaccctgcc tggcaagctg ccaaggccaa 180
 gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacggtgc ttgtgttatg 240
 tttagatgat agtccgctca agatcatgcc ccatectatc tagtgtgtac ttgtctatct 300
 cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
 ggagccctcg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gctgtagagt 420
 gtagacctgc ttttt 435

<210> 52333
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-001-Q1-K1-B10

<400> 52333
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 tgagaacatg gccctcatatc agaaaatctt gaaagatgag aaggaaactgg cgactcggca 120
 gcaggaggtg cttgatggaa actgcaagaa gtacgacatg ctggaagctc tagtgcagaa 180
 gggagacatc actaaccttg ctcaacaata cggagtgaac ttgaacgact gatgagtcac 240
 tcgtgtcttt ttcccccttc cccttggagc gatggcgcaa ctggtgtgat gatgatggaa 300
 taggatagca tgccatagtt ttggtccggt atctggaccc tccctctggt gtaaagacta 360
 tcccaactta ggcttgggct tttcagcctt ctttggctct ccaaaaaatc taaattagct 420
 ggctctgagc ctctgactnt ctgatcgatc caagctagct g 461

<210> 52334
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-001-Q1-K1-B11
 <400> 52334

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gtggcatgca gatcttcgtg aagacactta ctggcaagac gatcacctt gaggtggagt 120
cctcggacac catcgacaat gtcaaggcca agatccagga caaggagggc attccaccgg 180
accagcagcg gctcatcttt gctggcaagc agctggagga tggccgtacc cttgcagatt 240
acaacatcca gaaggagagc accctccact tgggtgctgcc tctcaggggt ggcattgcaga 300
tcttcgtgaa gactcttact ggcaagacga tcacccttga ggtggagtcc tcagacacca 360
ttgacaacgt caaggccaag atccaggaca aggagggcat tccaccggac cagcagcggc 420
tgatcttcgc cggcaagcag ctggaggatg gtcgcacctt ggctgactac aaca 474

<210> 52335

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-B12

<400> 52335

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acatgatcga cttcatgatc cctgcagagg actccgtgcc cgtgctcatc acgctggccg 180
tcaagtacct cagcgaatgc ccacaggctc tgcagcaact cgaggaggag aacatggagc 240
tcaagaggca gaaatcaggc gcgggagaaa ccctagaatg gacagactac atgtcgctcg 300
ccttcacaca gcacgtgatc acggagacgc tgcggatggg caacatcatc aacgggatca 360
tgcggaaggc ggtgcgagac gtggaggtga gaggccacct ggtcccgaag ggctggcgcg 420
tcctcgtcta 430

<210> 52336

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-A1

<400> 52336

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 acccaaggtt gttgaggaga ctgtttctca caaccctgcc tggcaagctg ccaaggccaa 180
 gaagcaggag aaggcagagg cacaaaagtg aatgatactc ccaacgggtgc ttgtgttatg 240
 tttagatgat agtccgctca agatcatgcc ccatacctatc tagtgtgtac ttgtctatct 300
 cgactgaagt cgatgttttag gtcttttttag ctgatttggc tctgcatgct tcgttgcaac 360
 ggagccccctg cgtgtcaatt cctggggaat aaatgagatg ttgaataagt gct 413

<210> 52337

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C11

<400> 52337

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 gaaacaaagg aagcactgac cagcacgctt acattcagca gctgagagaa ggtgtacaca 120
 acttctttgt tacttttatc gaggtcttgc gtgacaggcc tgctgggtcat gattgggagc 180
 ttgaacctgg agtcacatgt ggtgactatt tgtttgggat gttgcaggga acacgttctg 240
 ctctttatgc aaatgaccgt gaatctatct ctgttactgt gcaagaggta actcctagag 300
 ctggttgagc actggttgca ctttatgaac gtgctgtggg gctttatgct tctttggtaa 360
 atatcaatgc ctatcatcaa cctggtgttg aggctgggaa aaaggcagca ggagaagtgt 420

<210> 52338

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G2

<400> 52338

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 ggagctcgag cgcgcgctcc acctgcgccg acgcgatgag ggccaagtgg aagaagaaga 120
 ggatgcggag gctcaagagg aagcgccgga aaatgaggca gagatctaag taggcgcatac 180
 ttgtgaccga ggatggcgag cttctcctgc accatggctg tgacgcgttg ggatgattgt 240

ctccctttgt agacgtgctt tgctgtagac gtaggcgatg taaaccgtcc tttttgatta 300
attctagtat gttctgagac tgggtttata ttgtaatttg aggataatta tatgatgctc 360
taagtttatt gatattcctg tcaactgaat atggttagatg tcctttcttc agcgttggtc 420

<210> 52339

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G3

<400> 52339

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ggtcacgac attcgtcaca aagccatttg gaccgaggca cgttgctctc gcgctcgtgt 120
agcccacttt gatgtcgtct tcctttggcc gcatccgaca tctcgccagt tgcccctcat 180
ctccctaccg agcgctgctg tccatccttg tgcaacaaaa atcaccgctg gctacattgt 240
tggtcactg gtcggatcct ttgccattgc atacctgtgt gacacattta tctctgaca 299

<210> 52340

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-059-Q1-K1-G4

<400> 52340

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gacttcacgc tttcttcgta cgtccagtc atctctgctg agaaggccta ccacgagcag 120
ctctctgtgg ctgagatcac caacagtgc ttcgagccat cttccatgat ggccaagtgc 180
gacccacgcc atggcaagta catggcctgc tgcctcatgt accgtgggtga tgtgggtccc 240
aaggatgtga atgctgctgt ggccaccatc aagaccaaac gcaccatcca gttcgtggat 300
tggtgcccga ctggcttcaa gtgcggcatc aactaccagc ctntagcgt tgtgacctgg 360
ggcgacctgg ccaaggtgca gcgtgccgtg tgcattgat 399

<210> 52341

<211> 84

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-G5

 <400> 52341

 atcgaattgc aattcccacc tacacgtacg cgtactcgta cgcctatgac atcgtccact 60

 tgcacatcta ctctcgcttc taat 84

<210> 52342
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-G6

 <400> 52342

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 gtacagaatg aaaaggacca cattgagggc tttgcacctg angtagcttg gggtactaaa 120

 tctgggaaat ctgacctgga agcaccgatt gcaatccgac ccacaagtga gactgtcatg 180

 tatccatact tctncaaag gataagaagc caccgagact tacccttgaa ggtgtaatca 240

 atgggtgtaat gttgttagat gggagtttag caatccaact cctttcataa ggagccgtga 300

 atntctgtgg caagaggggc atactgcttt tgcgactaaa gaag 344

<210> 52343
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-H1

 <400> 52343

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 gtatcaccat atcgtactgt catttcaata tgcaaacctata taccaagacc ctacacctat 120

 atactatcac actccatgta taacttctga caccattaac actgtcatat ctaagaatcc 180

 ctactatcat gacatacatc ctgaataccc acatcttcta ttttaccact 230

<210> 52344

<211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-H2

 <400> 52344

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 gccaatctta aaagggaatt tattactcta ttacaattac aaatgcgagg agcatatctg 120
 gttgggaaat agactgatga tgactgcaac tgcagggacc aggagcatgg actgcacatc 180
 aaagatgtca tagatcgtct caaactacca gatgatgtag tcagtgcggc catccaaggt 240
 catgttgatg tgggcaacat ttacaacaca attgatgact tccactacaa atctgtccgg 300
 aatggatgac cacgttgcaa gtccagcgtt caagctccgt gtaagtatgg agcccggttca 360
 aggaagaaga aaatgtaacc ctctttagga tcgcctatat tttgcagata ggcttcatgg 420
 tcaacagctt 430

<210> 52345
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-H3

 <400> 52345

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 ggccttgctt cttatggctc gattgacttc ttgcgcccac ttctggaaac aagccattcc 120
 cggagaacag ggaaccactt gaacccaag tgggggtttcc ccggcccttt tcgggggttcc 180
 cgctt 185

<210> 52346
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-H6

 <400> 52346

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gtatcagcag aacgaaatgg gatccccatt ggaaaaccga cacctgttgc aaacacctat 120
 gtcgttccaa gctccatgga gaagttgggc atgtatttaa agcagagata taaaagcata 180
 cctttgtaca tcacagagaa cggttatgcc caaatagcca atattagcac tacagcagat 240
 gaaataatta atgatattga aagatcaact tacattcgtg acta 284

<210> 52347
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-C9

<400> 52347

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 agataatatt actgattata gaagtgtgaa tgatgttaca aaattgatgt cctccactac 180
 tgaacttgga tgaagttttg aagagagaat gcaaaacata ttattctagg gctgttgact 240
 caattagctc catgttaagg catgcttcag tgtcatcaat ttcaagcctt cttagtaacc 300
 ttcgaagcca tgaacaagta tcatcaatct tttggatgat acattcagac ctncatgagc 360
 ccaatgtacc ccgagcattt gaatgtctnt ctacta 396

<210> 52348
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D1

<400> 52348

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 caaggtggag ccaggatcca ctgttgcaat ctttggcctc ggatctgtcg gtttggcggt 180
 ggtccaaggc gcgaaaatgt gtggcgcatc caagatcatc ggcgttgatc tcaaccctga 240
 caaggaggaa gtagggaga 259

<210> 52349
 <211> 140
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-D10

 <400> 52349

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 tgtcaaaagc aggtatgggt accttgatcc ctaattcttc cgcattgcagg agcttttcagt 120
 gaaatccgat gtctactcat 140

<210> 52350
 <211> 170
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-D12

 <400> 52350

cccacgcttc cggtttggtt ggggcggcac atctgttaaa agataacgca agtgtgctga 60
 gatgaactca acgagaacag aaatctcgtg tgggacaaat aggtaaatgc tcgtgtgatt 120
 ctgatttcca ggtcgaatac gagccgtgaa atcgtggact atcgttcctt 170

<210> 52351
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-D2

 <400> 52351

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 gggcactaac gggcacaccc tcaccgtcaa ggtcgtcagc gccacccccg tgccggggccg 120
 cgcgcgcccc ggcgcacccg acgtcgcttc gtcccgcgcg ccgcgcacatcg ncgagtgcct 180
 cgtccgagac gagaccggcg tcacgtgatt caccgaccgc aacgacccaa gtgatttgct 240

<210> 52352
 <211> 169
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D6

<400> 52352

cccacgcgtc cgccacgcg ttcaggcttg ttttgtttct ccaaaaaaaaaa aaaaaaaaaa 60

agaaaaggaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaacaataaa aaaaaaaaaac aaaaacttaa aaacaaaaa 169

<210> 52353

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D7

<400> 52353

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gtgagattat gaaggctatt gggaagaag 89

<210> 52354

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-D8

<400> 52354

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tataatgagg aatgtgaccg ctttatgctt tgcattgtgc acaaacttgg atatgggaac 120

tgggatgaac tgaaagctgc ctttccgtat gtctccctta ttccgatttg attggtttgg 180

taaatccagg actaaccag agttggctaa gcgggggtgat actcttatca gactggttgt 240

aaagggaat caagaatatg atg 263

<210> 52355

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-E2

<400> 52355
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 ggcgacacct actacgggac c 81

<210> 52356
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-E4

<400> 52356
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 gggactggaa tggcgctggg gcacacacca actacagcac caagtcgatg aggagcgacg 120
 gcgggtacga ggtgatcaag aaggcgatcg gcaagctggg cctccggcac cgggagcaca 180
 tcgccgcgta cggggacggc aacgagcgcc gtctcaccgg ccgncacgag accgtcgaca 240
 tcaacacctt cgtctggggc gtcgcgaacc gcggggcgtc agtgcggggtg ggccgcgaca 300
 ccgagaagga atgcaaaagc tacttcgagg accggaagcc ggcgtncaac atggacccgt 360
 acgtggtgac ctgcgtgatc gcggagacaa ccatgctgtg ggagcccagc cac 413

<210> 52357
 <211> 251
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-059-Q1-K1-E5

<400> 52357
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 gccacagctg ccacccgatg aggcggcacg tgtggaggcc gaggttcgga gctacttcga 120
 cagcgtcncg ccaaggcgcc cggccaagcc gccgtgcac gaccgctcgg tggacacctt 180
 cgcggaaccc gccgcggtca acgccgggga ccacaacttg ccggagctcc gcaagctgcg 240
 cgacctctag g 251

<210> 52358

<211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-E6

 <400> 52358

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 agaatttgcg aggtccagaa agtgaccctt gaggtgattg ctgagtacac cgttcgtacc 120
 cttcagagga ccgtgcctgc tgctgtgcct gctgttgtct tcctctctgg tggacacagc 180
 gaggatgagg ccacccgcaa cctcaatgcc atgaaca 217

<210> 52359
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-E8

 <400> 52359

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 caccataaca ctatagcata tcatcaa 87

<210> 52360
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-E9

 <400> 52360

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 aagcatttag cccacaacc atcaacagtg gtcgtggcgc tgaattcgaa ggggctgtca 120
 ttgcactgat ccatctgtcg attacgagaa ccgataaagt ccgtgtctct cgagaggctt 180
 tctaccgcca gaaccttcca aatgtgacca atttgcttgc cactgtcttg gtattcctca 240
 tagttatcta tttccaatgc ttccgagttg agcttccagt gagatcaaag aatgctcgtg 300
 gccagcaagg ctcatatcca attaagctgt tctacacttc aaacatgcc atcatccttc 360
 actctgcgct gattaccaac ctctatttta tatcccagct tctctacaag 410

<210> 52361
 <211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-F4

 <400> 52361

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 ggtagcatga gaagatcccc ttctgcactc atcgaacggc cgtcgtcacc tagatcaatt 120
 gggaggggta agtggct 137

<210> 52362
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-F6

 <400> 52362

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 gggatgggaa taatggccgg tctctccacc aagcttttcg tggctcctct cctgctcgtt 120
 tgttacaccg gaacgcaagg cggctccggtg actatggtgt 160

<210> 52363
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B1

 <400> 52363

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 agaaaaatat agagttgcag tcatgttctg agaatgcaca tgcagtgttg acagccgaga 120
 aactagagtg gggaaactca gatcatttaa gcggtattat tgaaaaacat cctggtggat 180
 ttgatcttgt tcttgagct gatatttgct tccagcaatc tagcatttcc tgccctctttg 240
 atactgtaga gaggattggt cgtattcaag ctggtaaatg cagattcata ttggcttatg 300
 tatcccgaac taaagtcag gatgcactag tactcaagga agctgaaaag catggaatgc 360

gtgttgaaga aatgaacgga acaagaacaa ccatctcgaa tcttgaagga gtcataatttg 420
acattaccct gaaatgac 438

<210> 52364
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B10

<400> 52364

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gctcgcgag caagaccttt aaggggtggt gctaccacag caccaactgc atctccgttt 120
gcatcaccga gggggagatt agcggggtct ggcagcatgg gatttgcattg tgcacctatg 180
agtgtctcac gggtaacgat acttgcc 207

<210> 52365
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B11

<400> 52365

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ctctcttttc aaacaattgg ttcattatta ttattggtat ggtgggtgta tcgccccatt 120
tgcattaagc tgctcactaa gtcaaagtag taaaaagcca tggtctgttg tacctagaag 180
atgttgtgta tattcaaattc atagagcttg tgttttgggc tggagatagc acaaaataac 240
tactaaaact atctattatc aagtgatcca ttgcaattt tttcaatctg acactcacag 300
actcactggg tatatttcaa agctgggaag aagctaacga tataccatac ttagactcac 360
tggttaaggt tatgagtgca ttggtttgta aaaaaatat ttcattggtca ccacagtat 419

<210> 52366
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B12

<400> 52366

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ggcgattata tattatagat ctaatctggc tataattttac gtataaatcc ataaccaact 180

agatcttcat tctgtattta tgaggaa 207

<210> 52367

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B2

<400> 52367

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gttaatgcca agggatgaac tggcaataga catatgggat gctgttgagg cacttgacta 120

tgtgctagag cctggatgcg actaggtgcc ataacgcata gggaaacaac tggacgggta 180

tataaactg cgtgtacaac aacttgatgt ccgctgcgaa acaaagacaa aggataatgg 240

cttcgtaaat gatgtggcat ctgtgcaata tcgtgccctt gccgataagg catctgatgc 300

ttttacaagc ttagtgacac catggagcaa actcagtcac atgggttttg 349

<210> 52368

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B3

<400> 52368

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tgccgccacc ccaatcgatc tgccggccta cagcatggcg gcgggggcgg cggcgagggc 120

gaaggcagcg ggagccctgg cgctggcgct cgagctcgcg ctagcagggg ccaactccga 180

tggcgacgcg ctctcggcgc tgcgccgcaa cctcaaggac cccggcggcg tgctgcagag 240

ctgggacccc acgctcgtca accctgcac ctggttccac gtcacctgcg accgcgacaa 300

ccgcgtcacc cggctagatc ttggtatttg aacttatctg gtcattctgt gcctgagctt 360

gggaaattgg agcctctgca gtaccctgga cttta

395

<210> 52369
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-B5

<400> 52369

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gtgctgatcg atcgagggcc ccttgttcta gccagttgtc cccttcctc tcgccggcgt 120
tgctcctgcc tgctccaatg gccgcgcct tcacgaagac ggcgaacatc cccgcgacga 180
tgccggccgt gcagtaacgac tcctgcccgc ggggcgcgcg tggactcaag catgtggaag 240
ttccgggtccc ttccggcga aaagaacgagc ttctgctgaa gctggaggca gcaagcatca 300
accagtgga ctgggaggtg cagaaaggca tgc 333

<210> 52370
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C1

<400> 52370

aacaaaaaca ataacaatta aaagctatca atctaatact ctaaagataa aaaaaggggc 60
aaggggcaaa acatacctgc agactatcaa taaaagggt tgaagagtgg aggctgatgc 120
aaaggacat ggatgagtgg atgagacacc atcaactccc atctcatctt caagaacgtg 180
tgccgcggtt cgttcaagtc aaatggcttg ctacaagagg agtagaagaa gaatccatct 240
tgcaagcttt gcctgctgat attcgtcagg 270

<210> 52371
<211> 163
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C10

<400> 52371

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gaacttggat ctgaacccat tcttagagta tggataccaa atgcttcttc actggcggcc 120
ccttcgcaac gctagacatg aattgcttgc ttcccggcag ctt 163

<210> 52372
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C11

<400> 52372

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aaaaaaaaa aaaaaaaaaa aaaagaaaaa attaaaaaaa taaaaataa aaataaaaaa 120
aaaaaaaaa aaaaaataa aaaaaaaaat caaaataaaa aaaaaacaaa aaaagacctc 180
ccattttaaa aaatccatat tattttcccc ttccttccaa cacttaaccc ttcatttaat 240
ctccccaat ttaatttact ttccctattt t 271

<210> 52373
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C12

<400> 52373

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cgccccaaga ccacgtgcac cacttagcac tcacgtgct cgctcgctcg ctcgtagacg 120
cgcccggtta gagcagggaa ggaaccgtgg gagggatacg gtcggacatg atgcacgcca 180
agtcggagtc ggacgtgacg atgcctggc 209

<210> 52374
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C2

<400> 52374

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agacattgcc tgccatctgt ttattgacag ggaaatttat cactccagag ctgaataatg 120
gtgccagcct gtggttcatg tcacttttta tctgcatttt tggttccaag catcctagaa 180
atgagatgga gtggtgttgg aattgatgac t 211

<210> 52375
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C4

<400> 52375

cccacgcgta cggttttgta acgtttgata tagttactgt ccagctacat ttgttagagg 60
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ctaatacatc tttctct 137

<210> 52376
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C5

<400> 52376

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ggtgatgtaa cgggaggaga ttagaggaga gagagaaacc accagaggcg agcgagcagg 120
tgtgggcgtg gcgtggggga ggcgccgagg cggtcggggc cgtagataag agtcgtctca 180
cctcgtcgtc gcagactcgc atcgcacgag aggagaacga gaggggaagg gctatagaga 240
gaaacaaagg tggtcgtaga tgtgagccac cctctttgta tccctcgtca acttcttcta 300
ccaacttctt tttcttcc 319

<210> 52377
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C6

<400> 52377

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agtgcggaca tacctgcagt ctatcagtaa aaggcttgaa gagtggaggc tgaggcaaag 120

ggacatggat gagtggatga gacaccatca actcccatct catcttcaag aacgtgtgcg 180

gcggttcggt caagtcaaatt ggcttgctac aagaggagta gaagaagaat tcattttggc 240

aagctttgcc tgctgaaatt cgtcgggatg tgcagcgtca tctttgtttg gacctcgta 300

gacgtgtacc ttttttctct g 321

<210> 52378

<211> 222

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F10

<400> 52378

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aaatgggtgt actcctaaaa tcataaattg cctctccaaa caaaaattag ggcaaggggt 120

taaaattggt attggaagtt aaacctttta aaattcttta cttggcttcc ttaccatttt 180

cctgggtttt atgacaaaaa ttccaatttt tcccaaattg gg 222

<210> 52379

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F3

<400> 52379

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cagcgggagg tagactgtaa ccacaagaag tttgccatga aattcggttt ggtcgcagca 120

gttaggtac tcaacttttc tctagtccaa tccaagggag tttgttttat tctcaggtga 180

atctttccgt ttgtaccgtc aggttggtgt gttcttttga acatttgggc aatgataact 240

aataattcaa ggtcctttac aagtna 266

<210> 52380
<211> 220
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-F6

<400> 52380

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attgctttca tatttcaggc ggcgtcntca gacacctgga ctttttctat tgctttgggt 120
gtcacaaaaa atgccaagtg tcatttaagg tcttgtgaaa agggggagaa ctattgattc 180
catttattta acttacgggg ttgagcttac tgtacagggt 220

<210> 52381
<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-F7

<400> 52381

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ggccttggt caaaagatgt gctctttnaa ccccatcttc cccctctggg aagccaccgg 120
cgcgaatgtg actgaggtgg cttacgccgt gggcaaggac actaggattg gcccgaagtt 180
cctgaacgcc agtggtgggt tcggtgggtc ttgcttccaa aaggacattc tgaacctggt 240
gtacatctgc gagtgcaatg gcctgccga ggtggccaac tactggaagc aagtgatcaa 300
gatcaacgac taccagaaga gccggttcgt gaaccgcgtc gtgtcctcca tgttcaacac 360

<210> 52382
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G4

<400> 52382

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ggcttactgg gaacttggtta taaaagatat ccaaaaatcc tgccaacttt tttaggccat 120
 ctaccattaa acttattggg cttattggta ttttttccta aaaggggtctt cttagggtggc 180
 caaagacact taaaggactt gttaaaccgg aaaatgggta cacaaaatgg tcaaaccccc 240
 caaaggctac ataaaaaacc caacttcttg aaaaaggggt tctttcattc aagaaagtat 300
 tcgttattgc cttaaccgtc aacgcaacc taattttttc aattgcaaaa aataag 356

<210> 52383
 <211> 250
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-G7

<400> 52383

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 gctgggggtcc tggtegtgt accgcgccgt gatcgccgag ttcacgcca cgctgctgtt 120
 cctgtacatc acggggggcca ccgtgatcgg gtacaagcac cagactgacg cgtcggcgtc 180
 gggcgccgac gcggcggtcg gcagcggtgg cgtgctgggc atcgccctggg cctttcgcg 240
 catgatcttc 250

<210> 52384
 <211> 255
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-H1

<400> 52384

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 tcggagcgcc agcccatcgg cacggcgcg cagggcacgg acgacaagga ctacaaggag 180
 cccccgccgg cgccgctctt cgagccccgn gagctcaagt cctggctcctt ctaccgcgcc 240
 ggcatcgccg agttc 255

<210> 52385

<211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-H10

 <400> 52385

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 gagcgtgcct ggcgcgggct tctagcccta caacacctgg gcggggcgac tccggtttca 120
 gatcggcgac cagctgctgt ttgtgtaccc caaggagac 159

<210> 52386
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-H11

 <400> 52386

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 ggctgttggc aaagagcttc ctgtccttaa cggaagtgt actggaatgt tttccgggt 120
 cccaaccgtc aatgtttctg ttgttgattt aactgttacg cttgaaaagt cagcaacctt 180
 tgatgagatc 190

<210> 52387
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-H9

 <400> 52387

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 ttagcacagg cctctgttca gtcctaata tgagtgttaa gaacaacacc caggtcctca 120
 tcaattgccg caacaacaag aagctgcttg gccgtgttcg tgcttttgat cgccactgta 180
 acatggtgct cgagaacgtg cgtgagatgt ggacagagat cccaagact ggcaagggca 240
 aaaag 245

<210> 52388

<211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A1

 <400> 52388

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 acttaaaaac actaatacta ggatagggcc taataaacca tcacaaatta ccatcaacac 120
 taaacactca aaatctagct aactatgcc aatctctgcc ggaaaaataa actaatgcc 180
 attgtttaac ctgacatcct tgttgatggc cctcatgaca ttgaatcggt cgcttacgtc 240
 actgacaccg tccatgctgt ctgctacaat gcgctcaacg agcaccat 288

<210> 52389
 <211> 115
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A10

 <400> 52389

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 gcaattatcc gatgaatggc aatcttctct taatacctcg cgggacttgc atggc 115

<210> 52390
 <211> 255
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A12

 <400> 52390

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 gagaggtgat cgctgagatg accggcggcg gcgtggacta cagcttcgag tgcacggcg 120
 tgccgtcggt gatgaccgac gccttcagat gcaccaagat ggggatgggc aagacgatcg 180
 tgctggggct ggtgagggac agcgacgatg tgtgcctgcc gtcgctggag ctgctgttcg 240
 ggaggtgcgt catgg 255

<210> 52391

<211> 134
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A3

 <400> 52391

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 cagcataaac taaaatataa aatcacctaa acaaaaataa actatccaaa attatacaac 120
 cataaatact ataa 134

<210> 52392
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B10

 <400> 52392

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 tagatccatg gtcataataa agtttttggtt ttc 93

<210> 52393
 <211> 112
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B4

 <400> 52393

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 gggcgccaat atgatttttc ggactccgat accgagcctc gaaaggcagg aa 112

<210> 52394
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-B8

 <400> 52394

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tatatatcta aaacctaaag aatgttttta aataaaaaat gtctggaaac tttnttaaaa 120
 aaaccttacc aaaaaaaaaa tcaaaaaaaaaa attaaaaaat tccttagaag taaatcccct 180
 aaaaaacttt ataaaaatta tccataatac acccctc 217

<210> 52395
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-B9

<400> 52395

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 cccacttgta tgctgcatcc cacaatggat tttatgatgt ggaccccgaa tgttttgctt 120
 atacaatggt tgctatgctt cccc 144

<210> 52396
 <211> 56
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-C1

<400> 52396

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<210> 52397
 <211> 284
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-C2

<400> 52397

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 ctatcggcgc accctcacct aattctattn aaaacttttn atttaccac aaaaaagaaa 120
 aaaccaacat gtaatcctca cctactggtc taccttatct accgtccact taattataac 180
 caattttttt tattttttta aaaaaaaaaa aaaaacnnct gcctgttttc ccaaaaaacc 240

caaaaaaaaaaaa aaaagtctcg accnttttng gggccaagc ttac 284

<210> 52398
<211> 139
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C3

<400> 52398

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tttattaaaa aaaaaaaaaa aaccgcggaa gaaattttaa aaaaaattgg ccccccccc 120
caacaacttt aattctaaa 139

<210> 52399
<211> 273
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C4

<400> 52399

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agccatattt aaaaaaatag gggccccccc tcttaaaatt tcaatcctac cttccccttc 120
catccacacg aaaccnctt gnctagtag ccttctatat atatattttt ttccccnnn 180
nnccaacggn ngaangggaa aaaccgggg gaacccaaaa taaaaaccct ccaaccaat 240
ccccctttgc ccaattgcca aaaaaccaa aag 273

<210> 52400
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-C8

<400> 52400

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aaaaaaaaaaa aaaaccccc tttaatcctt aaataccggt ctaacggaat taccgggac 180
 ctaaataaaa attttttttt ttttttnaaa aaaaaagaaa aaaaaaaaaa nggggggaa 238

<210> 52401
 <211> 316
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-D6

<400> 52401

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 aaggactaac gcaagatgta ccttatgaag aagatcccc tttgcaagca caacgacaag 180
 ttccatacga cctcttacca tgagatgtcc ctgatggcaa acctcagcaa cccgtacatc 240
 gtcaaataca aagacggatg ggtataccag gggaccatca tctgcatcgt cacaagctac 300
 tgctaaggag gggaca 316

<210> 52402
 <211> 206
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-D7

<400> 52402

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 cctgataggg gctttcaaaa aactttttac taacttgaaa atatataac cttaaagtct 180
 tcggcaattt ttacaaccc catggg 206

<210> 52403
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E11

<400> 52403

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ttctccagcc gcggacgct ctacgagtac gccacaaca gtgtgaaggc tacgatcgag 180

aggtacaaga aggcacacgc ccgtggctct tctctggcc cccactctt agagcacaat 240

gc 242

<210> 52404

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E5

<400> 52404

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ggtcgctaac ctcaacatca gccagtgcac cgccctgaca cccccggc 108

<210> 52405

<211> 169

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-E7

<400> 52405

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ccaaatataa gtttggcggg gacgccgcc ccgcaactgc tcatgcgaag gataagctga 120

tgcanaagca ggagaaactg gagagaatta accaacaac cgcgagct 169

<210> 52406

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G8

<400> 52406

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 agatttacag cagaaagctt ggaaaagaac aagcagatgt tacctgaaaa tagaagaggt 180
 ggggaggaag taccagtga acccagctca actagctcta gcctgggtgc tgcgacaagg 240
 gg 242

<210> 52407
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-G9

<400> 52407

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 atcaatccct atatcctccc attctacaca taactaacca cttcaattat gtctaacatc 180
 ccactagtcc gttaactcta tattaccaga atacttatcc tccctcccctt cctctaattc 240
 attctcctat acccatccct attcacaaca aacaccctcc atatgaacca ccttatttac 300
 ctcataacaa acccttccac gttcaatac cactccatca taacctact 349

<210> 52408
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-H10

<400> 52408

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 ttggatattt ttcaagagta cattcgacac ctagagaaag aagaggaaga gcagaagcgg 180
 gtacaaaagg atcaagtgag aagacaagag aggaaaaacc gtgatgggtt tcgtaaaatg 240
 ctggaagaac atgttgctga tggcacactt aatgcaagaa cttcgtggcg tgattactgt 300

gcacagataa aagattcaca gtntacttg gctgtagcgt caaacacatc tggctctaca 360
ccgaaagaag tatttgatga cgtgatcgag gaac 394

<210> 52409
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H11

<400> 52409

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gctggcgaat caacaatggc gcgttcataa gcaactgtaa acggatgcga cactcggaaa 120
tacagttgct taaaaacagg cgcagacttc ttcaccggaa tgctagctgt tacctactga 180
tgtgcaactt caagcaattc acgccttgcc tgatattgct gaact 225

<210> 52410
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-H12

<400> 52410

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ccccggtccc ctccccctgc ttcaagatgc agatctttgt gaagaccctc accggcaaga 120
ctatcaccct cgaggtggag tcttctgaca ccattgacaa tgtcaaggct aagatccagg 180
acaaggaggg catccctcct gaccagcagc ggcttatctt cgccggcaag cagcttgagg 240
acggacgcac actngctgac tacaacatcc agaaggagtc aaccctncac ttggtgc 297

<210> 52411
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H2

<400> 52411

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gcgctagaca tgctaagagg caggcttgat cagtgcgatg tatgaccgaa tggaggcttg 120
 agggattgaa ccatcaataa caagcaacgt gcttcttctc attacttata ttgtgcacgc 180
 tgttttacgt tcaagagatc aatcaaagcc tctagaactg agaggatgaag atatccaagg 240
 tcggaaggct ggaaagctct ggattggaga tctaactgcc tcgtgtgcaa gtggtatcaa 300
 acacatgata gacttacaac atgagggaga ggagataga 339

<210> 52412

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H4

<400> 52412

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 agacaaatct gataggcaga gcaactatat gaaaaaggat aatggctctg agacaagtcg 120
 ggattgggtat aagatgcagc aggcaaagca gctgcaacag caacaaagac cagcatctgc 180
 ttcagcctca tcaaggcaat ctgaaaagga aagttcttgt gatgatgtag aaattgatgc 240
 aattcttgag gaagaggagg ccctcattgc agttcacagg aaggagatcg agaatactat 300
 ggagattgtg cgggaagaga tgaacctttt ggcagaggtt gatc 344

<210> 52413

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H6

<400> 52413

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 ccctgctcgc cttcttctcc ggggaccccg ccgtcgtata cggcctcatc atcccgctcc 120
 cgactacgcc ggcgccggcg accgcgcacg atgcggaggc ggtgtcgccg gagtctgtga 180
 ccttccggac gaaccgctc ggggaggtgg cgctctcgga gatcgagagg ctgctgatgc 240
 aagacgctga ggccgaactg cacgaagagg accatgggaa caacggagac c 291

<210> 52414
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-H8

 <400> 52414

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 ctccggcgac cccgccgcgc tctccggcct catcatcccg tccacgcctc cgccaacgcc 120
 gtcgacggcg cacgatgcgc aggcagtgtc gccggattct gtgacctccc ggacgaaccc 180
 actcgatgag gtggcgctct cagagatcga gaggtcctg a 221

<210> 52415
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-H9

 <400> 52415

 cgggatcacc cttcgcaacc atatctcacg gatccttcgg cgccacttta agggcaaacg 60
 gtacgggtgct gatctccttg atttgttcaa tgagggttag ttcaagacag cttcagggtca 120
 gctgctggac cttatcacta cccatgaggg agaaaaagat ctaacaaagt ataacataac 180
 agttcacggc cgaattgttc aatacaagac agcctattat tcattttatc tgccggttgc 240
 atgtgccctg ctgctctctg gcgagaattt ggacaattat ggtgatgtag agaacatcct 300
 tgttgaaatg ggaacatact ttcaagtcca ggatgactat ctggattgtt atggtgatcc 360
 tgaatttatc ggcaagattg gaacggacat tgaagattac aagtgtcat 410

<210> 52416
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-A10

 <400> 52416

 aaaaaaaaaa ttttttttaa atatnganan nnaaaaaaaaaa gggggggaat tttttaaaaa 60

gaacgccacc ccccccccn ccnctacaac aaaccaaaaa aaatatatta aatttctttc 120
tccaatgggg ggcccccggt taaaaaaaaa aaaatTTTTT ttcccgcca tccaaacgaa 180
aatccttttc ttttcgcccc cccaaaataa attaacg 217

<210> 52417
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-A2

<400> 52417

tcaatcccaa tccaccgct aggtcgcaaa ctcaacacac antcaggctc gaacctcttt 60
ctcgtccgaa tccacaactt ccatccatgg cagtgtcacc agggatgggc ttctccgtcc 120
gcccgcgggc tccggccccg cctcgcgctt gctctgccac ggcgagggcg cgcgccgtcg 180
gcgactgccc caagtgggtg ccgccgctgc tgggggtggc cggccagccg gactacatcg 240
acgcgcggcc ggcg 254

<210> 52418
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G4

<400> 52418

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ggtgcgttcc atcacgcgcg tgcagatgga gtggtcgctc tgggcccgag acatcgagcc 120
cgagatcgtg cactctgca gagaattggg gattggaatt gtggcttaca gtccaattgg 180
ccgtggattt tttggtggaa gaggagtgat acagcaagtt ttttctgaat ctagtctgca 240
aaggcatcca agatttataa cagaaagctt ggagaagaac aagcagattt acctgaaaat 300
agaagatttg gcgaagaagt accagtgcag cccagctcag ctagctctag cctgggttct 360
gcgtcaaggg gatgatgt 378

<210> 52419
<211> 199

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A4

 <400> 52419

 cccacacatc ccaacacgcc tctctatagt attaaatctt acgcacacgt tctagcggag 60
 gcatacttac ataatcgtgc atgctacatt atatctactc tatagtgtca tacaaattca 120
 atacattgaa caccctttca catacccaag taaatggaaa accataacat taccattttt 180
 actaatcttg caatacata 199

<210> 52420
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A8

 <400> 52420

 acgcgtccgc ctacgcgttc ataccctctc cggaattctc tgaccctatc attgcgaaaa 60
 aatgtagggg aaagccggac ataga 85

<210> 52421
 <211> 256
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-E2

 <400> 52421

 cattcactcc catccatcat atatccttac tacatcactc acatttcttc acaaacccta 60
 ttcttatact ccaatatttt cctcaaatat ttattcattt ataattctaaa tctccctatt 120
 atctacacca accatcctct attctaatta aaatatcaat tattctcaaa tcaataatct 180
 acattctatt catccacaac tcaatcaaaa ctttctccat ttcatcttat taatcattac 240
 aattttctta cccac 256

<210> 52422
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E3

<400> 52422

acccactcat cccaacatag cctttatcta ttcctgtcaa tttattcttc ttacataatt 60

<210> 52423

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-E5

<400> 52423

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catgaatgac tgattctcaa agcatgctg agctacatag attggttcta gtcgatacac 120

cactggcccc ttactttctca gagtgcatta catctgagga tttggatgac atgaatattg 180

agattatgag gaacactctc tacaaagcat atcttgagga cttctacaaa ttttgccaga 240

aactaggtgg tgcaacagct gacatcatgt gtgatctnct ttcatttgaa gctgacagaa 300

gagctgttaa cattacaata aatagtattg gtactgagtt gacaagagat gaccgtagga 360

agctgtactc caactttggt ttat 384

<210> 52424

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E6

<400> 52424

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attaactcca aatatcacia cactc 85

<210> 52425

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-E8

<400> 52425

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atgaaaaaga aagggttcaag cgtgaatgca gcacaagcta tgatcgttca agtaagttta 120
gatgttacac tttgcggtca ttcgacataa tctgtgtatg ccataccatg acctcttatg 180

<210> 52426

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-F1

<400> 52426

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caagatgact acaaaagcaa tcattcagct tctgttcttt gctttggttt ttgccacatt 120
tacggcgcacat ggggcttggg gagagaaagg ttgctacgat gaaaaaagaa aggttcaagc 180
gtgaatgcag cacaagctat gagcgtncaa gtaagtcttg ttgcgacact gtgcggtcgg 240
tcgacatggc ctgtgttcgc cgtaccatga cctccgagga ggaaacggga ttaagtgttc 300
aaaagatctc ttttctttca atggcttgca acaactcatt gcgagtcgtc gggaaaaaat 360
acggagatat tcctaaacga ccaatgt 387

<210> 52427

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-F10

<400> 52427

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gcagagcttt ggagaacctt tttttatggt tattcgtgag gatgagaccc tatcttctat 120
caaagaacgt atacagaaaa agcttaaggt tccagatgag gatttctcaa agtggaagtt 180
tgcatacatt tcaactcggtc gtcttgacta ttttgaagat tcagatactg tagccctaaa 240
attccagaga aacatgtatg gagcttggga gcagtatctt ggactggaac atnccgaca 299

<210> 52428
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-F11

 <400> 52428

 acccactcgt ccgaaaaaat aaaaaaataa atatataata aaaattacat aaaacactaa 60
 aaaaaaaaaa acaaatgaaa agctaaaaaa aacaatttaa atataaatat aaaaaaaaaa 120
 tcaaacccta tctatatctc aaagaactta tacactaata tcttaaagtt ccagataatg 180
 atttctaaaa atgtaatatt gcatacattt cactcattca ttctgactat tctgaatatt 240
 cagatactgt cgccctaaaa ttccatataa acatttatcg agcttggttag caatatatac 300
 tacttataca tccttacact t 321

<210> 52429
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-F12

 <400> 52429

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 gaggaacgagg tggtctgcct gttcgagggg gtgctggaca acctgggtcg tctgagccag 120
 cagcacgggc tgtcaagcaa gggcgccaac gaggtgctcc tcgtcatcga agcctacaag 180
 acgtgcgcgc accgcgcgcc ctaccgggcc agcttcatgc 220

<210> 52430
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-F2

 <400> 52430

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 gaatgatact tcgaaaggtt gattcacctt ctgttctttg ctttggtttt tgccacattt 120

acggcgcatg gggcttgggt agagaagggg tgctactatg aaaaagaaag gttcaagcgt 180
 gaatgcagca catgctatga gcgccaagt aagtcttggt gcgacactgt gcggtcggtc 240
 gacatgtcct gtgttcgccg taccatgacc tcctattatg atacggtatt aattggt 297

<210> 52431
 <211> 78
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F3

<400> 52431

ccaaaccgac ccactcaacc aatcggtctt ctttaccctt ctattgattt ttcttttact 60
 aacatcaaca tcgtatta 78

<210> 52432
 <211> 189
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F6

<400> 52432

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 aattgatcca taaatcttac tccattcata caactcacta atataaactc atttatctta 120
 catcaaccac atattaatca aacatatata tatcccatat aaacttaaca tcaataactaa 180
 ctactcatt 189

<210> 52433
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-F8

<400> 52433

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 gtttggttc caaatggttc gatggtccta aaatagtcag aatcacatga catctgtgct 120
 atagatatgg acctcagtgg ttttctccac attaggaaag ctggaagagc cgttttgaac 180

tcaatTTTTT tgctaacatt ggtgttatgg tgaaacatat ttttgtgtgt atgtaccaac 240
aactaaaatg taaacacgac attatcatat ttgattacag gaataattat ctcttatatc 300
tta 303

<210> 52434
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-G1
<400> 52434

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gcggttgact gacactgatc tatatagtct gtgtggcact gtacactgta ccagttctgt 120
atgagaaata tgaggacaag gttgatgctt ttggtgagaa ggctatgact gaactgaaga 180
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ataagaagca ctagattggt agtaaggat ttgctatgaa tcaacatcta cattatgtca 300
ctagctgaca cctctatctc tgaaggattg tgctaggtac tggctcttag ttgatagtat 360
ataatctgta tgtgcaactt ttgtgtgact gacagtttgt tg 402

<210> 52435
<211> 463
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-G10
<400> 52435

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atcgtgccgg agaggagaag ctagctaagt agcggcagct ctggttggtgt gtgtgtgtgt 120
ggagggtagc tgcagctggg gctagctgga aaggtcggga gccatgggga ggggccgggt 180
ggagctgaag cggatcgaga acaagatcaa ccgccaggtc accttcgcca agcgccgcaa 240
cggcctgctc aagaaggcgt acgagctctc cgtgctctgc gacgccgaag tcgcgctcat 300
cgtcttctnc aaccgcggca agctatacga gttctgtagc ggaccgagca tcacgagaac 360
actngagagg tacgaaaaaa acagttatgc angcccagat actgctgtac agaacaaaga 420

gaacgagtta gtccaggaca gccgcaatga gtaccctaaa ctg 463

<210> 52436

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-E12

<400> 52436

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ctctgccttc eggccgcggc aatggcgctg gggaacaaca acaagcagag gagcgaggag 120

gagtggcgcg tctactctc ccctgagcag ttccgcctcc tccgcctcaa gggcaccgag 180

ttacccggga caggagagta caacaaattc tacggcgacg gggtttataa ctgcgctggc 240

tgcgggactc ccctgtacaa gtccgccaca aaatttgatt ctggctgcng ctggcctgca 300

ttctttgagg ggcttncagg agccataaac cgaacaccag atcctgatgg taggagggta 360

gagatcacat gtgcagnctg cgggtggccat ctgggccatg tngtcaaggg tgaaagcttc 420

aagacaccta ctgatgagcg cca 443

<210> 52437

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G11

<400> 52437

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gacatgatta acgatgacaa gaggcacgc taaaaaggta cacttgatgc gttcaciaag 120

atggtacgat atgaggtct gtcagggatg taaaaaggaa tgggcacaaa aattgtgcaa 180

agtgtttttg cttctgcttt gctttttatg attaaggagg agctggtgaa gggtgctcga 240

ctattggtaa ctggtaacac tagtctggtt aagaaactac catcaaagtc atcaagatga 300

actacgggca tcgcaagcgt tagtatatca tcttaaaaag ccatttatta tccgcataaa 360

ccgtaaaciaa ggtcgacaag ctatagagct cgcctctgct ttggatatgt caactgtagg 420

ttacacaa

428

<210> 52438

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G12

<400> 52438

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gttcgggttc ggggttcgtga ggttctccgg ggttcggggt cgtgggtgag cggatcgaga 120

tggcggcgtc ggatgttgag taccgctgct tcgtcggcgg cctcgcctgg gccacggacg 180

accactccct ccacaacgcc ttcagcacct acggcgaggt cctcgagtcc aagatcatcc 240

tcgatcggga gacgcagagg tcccgcggct tcggcttcgt caccttctcc acggaggagg 300

cgatgcggaa cgccatcgag ggcatgaa 328

<210> 52439

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G2

<400> 52439

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cgggcgggta cagagctgaa gcgaccgggt gacacggtag gttggaggca ccgtcgact 120

gtacactctg ccagttctag atgagaaaca tgaggacaac gtacatgcac tcggtgagaa 180

ggctattaat gaactacagc ggggttatgc agttcacgat gataattgcc tgatatacat 240

agctatgcac ctgcttaa 258

<210> 52440

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C10

<400> 52440

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gacaggctga ccaatacaat tgctgaacaa ttgcttgaac aggttattgt tttggttgat 120
gcttctgagg ctgacgaatt tttagaagtt gcttcaaagc ctttagaatc attaccatat 180
gattctcctg ggcagacctt t 201

<210> 52441
<211> 278
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-C6
<400> 52441

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tccgtctacc cttctctaaa taaatttaac actaaatgtg aggtttataa aaaaactaat 120
acaacaaaat aaataactac tacacacaaa tattcaaaat cccaattatg ataaaattgt 180
aaaaagaagt ctattactac cttaaaaaaa gtttgataca acccttaata agatccactt 240
tattccaatc tattcttttt aatgtgacaa cattattt 278

<210> 52442
<211> 346
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-C8
<400> 52442

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aaaaacaaaa aaaaacacca aagaacgctt acataataaa attaaacaac cccctaccta 120
cttactaacc tcacctccca acttttcaacc accctaccta acactccaca ccctacaact 180
taatcacttt cctataaaact tcccaaattc aatatcactc tccttctttt caaacttacc 240
tatcttcaca aaccctaact tatcccaact aaatcccata acactacatc ccccttatcc 300
cacttttcct aatacccaaa atccccaaac caatctcctt ttcaaa 346

<210> 52443
<211> 366
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-D11

<400> 52443

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gtgagggttg aattaccact tcctctcaac cgtaccactt acaagggtcg cctctcaagc 120

ctgatatcca tcgcacaagc cctgctgggt gcagcccggt ctaatcagaa acccctgctc 180

tctcttcgcg ttgagggtcc agtttctctg tcctcgactc cttccatgtc tccaaggac 240

aagctcaagc tcaaacggtt ggccccaggc caagtggagc tcttctcaca agcgggggca 300

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tctctg 366

<210> 52444

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-D12

<400> 52444

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tcacagccat ggaatagagg ctgggttcgc atcaatgtc agccctggcg caaaggagtt 120

cagagtgacc cacatggaac tgatcaaagg aatcaaaggt catggctacc atgatgaatt 180

gggcattcct attattgaga ataccctta tgagtatgag ctactgact acctaatga 240

ggcgattgca gcatacccaa aggcaactgc tgtgcttggt acgaaccacg caatatatat 300

atgggggggag ccttcgatca atgctt 326

<210> 52445

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-D2

<400> 52445

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 catg 184

<210> 52446
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-056-Q1-K1-E10
 <400> 52446

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 ccaaacgtgc atttgtggag tggagacact agcagatgac ctcattccaa atcaaact 180
 tcggagcaca atcagcaata tgttgggaac acagacaagc agtgggtgta gtggtacaac 240
 aagacacaga agttcgctcg gcagcaaccc taacccaaaa tacagagcca cactgcttct 300
 gttgcgtcag caggggaggt gaagcagtct atagaccatc agctaccagc ggtatctgca 360
 cctgattatg tgctccaggg tgccacagga agtgacctgg tgaaccagcc tctagagaaa 420
 tagcagccac tgctgaaatc ctagcaaata tgaa 454

<210> 52447
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-E11
 <400> 52447

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 gtccctcacc tagagggccg cacggcagtg gagcgacgtt gctacgaggg gccatgtgga 180
 tgcgcaatgg tctcatgtg ctggcgagta tgttgttctc tgggtggtgct agtcgtcgat 240
 cggctgttgt cgtcctagcc gttatagcct gcgtcatgtt tgtgtaatcc gaccgggctg 300
 tgttgggcca ttggtattga tctacccttt tgtaatctcc gntctgcttt gtgtaatcct 360

actgcccatt ttgagccatt gatctaataa aatcangtgg tgattgctcc cncgttgacc 420
gtt 423

<210> 52448
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C1

<400> 52448

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cttcgactgt ttagatctaa gggttggggg ggcccgccct gcctatgatg atggaaatag 120
gtctagagag aggattcaga actgcattga gtgactttgt acttatgcag ctccagttag 180
catctgtgtt cttcacattc tctcttggga ccaaaactca ctactactga accacactgc 240
tacattgagg agctgaatat agagctacag tgcgtggatt tgtggtgttt catgcc 296

<210> 52449
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H8

<400> 52449

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gatgcaacga ctcccaaata ctccaaggcg cgttatgatg agattgtgaa ggaagtctca 180
tcttacctca agaaagttgg gtacaaccct gataagattg cctttgtccc catctctggt 240
tttgaaggcg acaacatgat tgagaagtcc accaaccctg actggtacaa aagcccgacc 300
ctgcttgaag ctcttgacca gatcaccgag cccaagagac cttcggacaa gccctgcgt 360
cttccct 368

<210> 52450
<211> 260
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 52450

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caccgccacg acctgagctc taccatcgct cactctctcc actccaccta cctatccctac 180
cagtgaataa accatgacat ctttccccac gttctttctac cccctctact gccctcatca 240
tcaccttcat ctctaccacc 260

<210> 52451
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A12

<400> 52451

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agacagtcca catgaaaatg gagctttgag gcatggccgg ggaaaaagaa agaaagaaaa 180
ccccagtcgg aagctcgacg ccgtcgctcc cctgtacat acggagaaga gaggacacag 240
ctcgcaccgg aagcagcggg ctcttggggg gtccaatcca acctaacgac gttggcccct 300

<210> 52452
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A2

<400> 52452

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ccgcaagtaa ttcgtcagtg aggacggcgc tcaaggccgc gacggccgcg accttcggcg 120
ggtcgatgct ggtgctgtcc gggctgatcc tggccggcac cgtgatcgcg ctcacggtgg 180
ccacccccgt gctggtgate ttcagcccgg tgctggtgcc ggccggcacc gcgctggcgc 240

tcattggcggc cgtgttcggt acctccggcg gcc

273

<210> 52453

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A5

<400> 52453

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gtccggggtg atcctggccg gcaccgtgat cgcgctcacg gtggccaccc ccgtgctggt 180

gatcttcagc ccggtgctgg tgccggccgg catcgcgctg gcgctcatgg cggccggggtt 240

cgtcacctcc ggcggcctcg gcgtcgctgc gctgtccgtg ttctcctgga tgtacaagta 300

cctgaccgtc aagcacccgt 320

<210> 52454

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-A7

<400> 52454

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tcaccctgat cagctcact acgaccacca ccacgtatt catctccaat cccaaacaat 120

acactgcact caacattaat ccgactacca aaaat 155

<210> 52455

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-056-Q1-K1-B1

<400> 52455

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atgtgaacaa catcaaggaa gagatgcgca ggaagcaggc tcatgctgct caggaggcgt 180
acgaggagga cgacgagatg cctggcggag cccaaagagt gcagtgcgct caacagtaag 240
cagactacca aaatgggatt caaggcactt tggttgctct tcaattatgc gagtgcgcct 300
gtggactgta tggttctatg gttttgctgt cgctgagcta caaagtanga agctgatgcg 360
cccctggctc tgcaagcggg ggaatgtatc cttttttgct gcaactgaaa aatgctaccc 420
aggca 425

<210> 52456
<211> 363
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-B10
<400> 52456

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ggacaagatc ccgggagatg ttgcatctga gaacgaggca gtcacgctg accttcgcca 180
ggagatagga ctcggtatgac atcgagaaga tcaagggtcaa gcttgatgct gccacaagg 240
ctcgctcgaa gattggctcag cacatgtcaa gtgggtggctc tggcgactca cagtcagcat 300
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gag 363

<210> 52457
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-B11
<400> 52457

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gcaagggccg cagcggcagg ccaagcatct ctctcccttc cttctccccg ttctccgtgc 120
aatctcggcc gtttccgctc ccgccatgc catggaggag gccaaagggtg tggagtccaa 180
ggacgggacg atctcagttg cttcagcatt tgctggtcat caggaagctg tgcaagacag 240

ggaccacaaa tttttatcaa aggcagtgga ggaagcatac cgaggagttg actgcggcga 300
 tggaggacca tttggtgcag ttgttgcca taatgatgaa gtaatagtta gctgccataa 360
 catggttttg aagaacactg atccaactgc gcatgctgaa gtaactgcga taagaaaggc 420
 ttgccaaaag cttgggaaa 439

<210> 52458
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-056-Q1-K1-B12
 <400> 52458

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 gttctgaaac ctttttttct tccccttget gctcgcggca tagcatttgg aaattgaagt 180
 acaatttgtc tttcaggata tactgaattg atttatcatt gtctgcagg acttggatga 240
 tagatccgtg ttacgatacc agcatcaaag ccgcctagaa gcaataactga actttcactt 300
 gagatgtgag taaagttgtg tgggggcctt cgctctcga aggtcctcaa aaacatgatt 360
 tgacaatggt ttccaagtgg attatgtgaa caggtacctt c 401

<210> 52459
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-B2
 <400> 52459

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 tgggccaagt gtgggcagtg agactaatgt tgatggacta atgttggatc aagaggcttg 180
 tgaagttcag totccacctt ctgttacgtc agtatataga agtgggaaaa agcggaagaa 240
 aagtcaagtt gcaagtgttc tggatgacta tttggagcac aagaagaagc aaacacagaa 300

gattatggag gtgttacttg agaagaagag tcgtgaagag gagtactcta tcgagaggtg 360
tctcgacaca gttgatgtta tggaggactt gacggatgan gagaaggccc ttgcagcana 420
ngtgttcaag aatg 434

<210> 52460
<211> 251
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-B5
<400> 52460

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cgaaacgaaa aatttaaaaa ttgaaaaaac ccacccaatc taacacacaa ccatacatta 120
caagaacaac atctactaaa ataacctcca taaacaacac ccatcccact taaaaatcct 180
acctacacga ccactaaaac actctcacca cccaacaat ccacatcact caacattaaa 240
cacactacca a 251

<210> 52461
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-B6
<400> 52461

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agcatctgct gttgaaccgg tgcaacatgt accaagagcg ggcagcgaga tcaatgttgc 120
tgggccaaagt gtgggcagtg agactaatgt tgatggacta atgttggatc aagaggcttg 180
tgaagttcag tctccacctt ctgttacgtc agtatataga agtgggaaaa agcgggaagaa 240
aagtcaagtt gcaagtgttc tggatgacta tttggagcac aagaagaagc aaacacagaa 300
gattatggag gtgttacttg agaagaagag tcgtgaagag gagtactcta tcgagaggtg 360
tctcgacaca gttgatgtta tggaggactt gacggatgan gagaaggccc ttgcagcana 420
ngtgttcaag aatg 434

<210> 52462
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-B7

 <400> 52462

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 aatgttgctg ggccaagtgt gggcagtgag actaatgttg atggactaat gttggatcaa 180
 gaggcttggt aagttcagtc tccaccttct gttacgtcag tatatagaag tgggaaaaag 240
 cggaagaaaa gtcaagttgc aagtgttctg gatgactatt tggagcacia gaagaagcaa 300
 acacagaaga ttatggaggt gttacttgag aagaagagtc gtgaagagga gtactctatc 360
 gagag 365

<210> 52463
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-B8

 <400> 52463

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 agtgtgggca gtgagactaa tgttgatgga ctaatgttgg atcaagaggc ttgtgaagtt 180
 cagtctccac cttctgttac gtcagtatat agaagtggga aaaagcggaa gaaaagtcaa 240
 gttgcaagtg ttctggatga ctatgttgag cacaagaaga agcatacac 289

<210> 52464
 <211> 160
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-G1

 <400> 52464

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gcgcgggtcg aatcatcctt cttccgtcac catacact gtagacagtc gaacaatcgc 120
 cggctagacg cccctcttct ggacgccgca cgccttgacg 160

<210> 52465
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-G11
 <400> 52465

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 ggcaagaatg ccgccatgga gatccacact gaaaactacc tcattgtcac aaaaaatgga 120
 aatgtgtgcc tgggcattct tgatggaacg gctgccaacg tgagtttcaa cgtaattgga 180
 gacatcacga tgcaggatca gatggtgatc tatgacaacg agaaatcgca gctgggatgg 240
 gcgcgtgggg catgcactag gagcgccaag tctattctgt cttcctttcc ctgagctcag 300
 ttctatgtac ttctgataga gtttaagaaa atcactatat caaacctcct cgcaatgcat 360
 gaatttecta actgaagagg gagggagaga gagagagaga atgttcctgt ttatgtagag 420
 atggagtcca aaatttgtgt 440

<210> 52466
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-G12
 <400> 52466

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 gagaatcgaa gggagtgtca taggggagag atccaacttg ttctcacagc tgcactccga 180
 taattctagc cctacagaaa acaaactcca accaggtgaa aagtcctttg catcggaggc 240
 atatgcggtg aactggaacg aaccaccaga ccaacaatcg caagactccc tcgagcagct 300
 agagccgtat cgagtgatat ggaaacaacc agtgcaaggt gaaaagtcct tcgtatccga 360
 ggcatatccg gcgaaatgga acaaaccacc atcaccaagc atgcaatcgc aagactcctt 420

cgagccagag gcatatcggg tgaaat

446

<210> 52467

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G3

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aggacacttt ctgcttacca atctctctct tgataccatg aaggccactg ccaagtctac 120

gggcattgag ggccgcattg tgaacctgtc atcagtcgcc caccaccata cgtatccgaa 180

gggaattgac ttcgataacc tcaacgatga gaaaatatac aacgacaaaa tggcttatgg 240

acagtctaaa gctgc 255

<210> 52468

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G4

<400> 52468

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gattaccacc aaaactgaac cttgaaccct atctcgaatg gtatcaacga ctcatcttta 120

aattacgaaa gtttcaatca caaaatgttc tactgctccc aacataaata taataccaca 180

tgttatattg aaacatatat atccatcatc catatacc 218

<210> 52469

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G7

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tgtggttaaga tcaggttcta ctgctgggat accgcagggc aagagaagtt tggtaggctc 180
 agggatggat actatatcca tggccagtgt gcatcatca tgtttgatgt aacctcaagg 240
 cttacttaca agaatgttcc tacgtggcat aaggacctgt gcagggctctg tgaaaacatc 300
 cccattgtcc tctgcggtaa taaagttgat gtgaagaaca agcaggtcaa agccaagcca 360
 gttactttcc acaggaagaa gaatctgcag tactattaaa tttc 404

<210> 52470
 <211> 394
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-G8

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 ccccgctccc tttttcggcg cgcgagctcg cccgagatgg caaacgcgag atcgggtgtc 180
 gctgtgaatg acgagtgcac gctcaagttc ggcgagctgc agtcgaagag gctgcaccgc 240
 ttcctaactn tcaagatgga cgacaagttc aaggagatcg ttgtggacca ggtcggggat 300
 cgcgctacca gctacgagga cttcaciaaac agccctcccg agaatgactg ccgatacgcg 360
 atctatgatt tcgactttgt cactgcagaa gatg 394

<210> 52471
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G9

<400> 52471
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 gacaattttt gacttcgaag caataaaaaa gctgctgacc tccccaaagt ttacattctg 180
 ttatgatgca ctccatgggtg ttgcggggagc ttatgccaaa cacatctttg tggaagagct 240

tgggtgctgat gaaagctcac tgttgaattg tgtcccgaaa gaggactttg gaggtgggtca 300
tccggatcct aaccttacct atgcaaa 327

<210> 52472
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H10

<400> 52472

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agtgaatatt tttaaattaa aaaaaacaaa caaaaaaaaa aaaaaaatgt tctaaaattt 120
tataatgaaa cataatatct tattccttct tccaaagttt atatcatctt atcttaaaaa 180
taaatttaaa ttaattaact tgactctctt ttaaattt 218

<210> 52473
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H11

<400> 52473

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ctctgtctca ccgcttttagc acgtacacca cgcccgctg cgctagatcc catctgaagc 180
cagcggacat catacccttg agcgctagct gggctgcac tctaacctcc acaggcagca 240
agcgagcgtg gttagcgccg cagtggtttc accgacctta aatcgggccg taagctcgag 300
gactgtcact aatttcttga gcttaaagtg tcagaggggt taataccgca gtgtatgagg 360
gtgac 365

<210> 52474
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H3

<400> 52474

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agcgttcctg gagtatatgc cattggtgat gtggctacct tcctttggaa gatgtccatt 180
gaagttagga gagtggacca tgttgaccat tctagaaagt ctgcaaagca ggctgtaaag 240
gogatcaagg gcaaaaagtc cggatgaacca gttccggagt atgactacct gccatacttt 300
tactcccgat cattcaacct ggcgtggcaa ttttacgggg acaacgtggg caaaaccatc 360
ctgttttgag acagtgaccc caccttcagc aagccc 396

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<210> 52475
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H4

<400> 52475

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gcttggtcat ccattgatc ttggcataaa tcaagctggg cttgctgagt gtatagttcg 120
tgctgtacaa gcttgccatc catatcttca acctgtgctt tttgagagca tcatcttgac 180
aggtggaagc aactgttcc ccagattcac cgaaagattg gagagggaac ttccggcctct 240
tgtccctgac gactacaagg ttaagataac tcgtcaagag aagtatgtct ctgcaccccc 300
ctcttgcatg cccaaattta ttggtggaaa atgctgaaaa atgaatcat 349

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<210> 52476
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F7

<400> 52476

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gaagcaatca cttgatcatg cacttgcttc aagcgaggct gacggaggca gtgggaaaaa 120
gcgcagtagg ggtgggaaaa ggaagcgtga gaagaagttt gcagaacagg ccatggctgc 180

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taaagctgaa gaagctgaga gatctgtctt taatttttatc aacagccatc tagtaagcca 240
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 gaaagaagac cgaagatcct tggttgcata ccgtgaagaa gtgaaagaac ttaagattcc 360
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<210> 52478

<211> 405

<212> DNA

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<400> 52478

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<210> 52479
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 gagaa 425

<210> 52480
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 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-E4
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442

<210> 52481

<211> 338

<212> DNA

<213> Zea mays

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<400> 52481

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cccggcgagg agctcaacaa ggtgctcgtg gccatcaacc agcgcaagca catcgacccg 240
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cacgcacctg ctccgcacaa agaaagaaaa aacaaaag 338

<210> 52482

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E6

<400> 52482

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<210> 52483

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E7

<400> 52483

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atggagaagt agaacctcgt attgggtcac aagtactgac tcttattgat tgactgaaat 420
ctcgttccca tgttattgt 439

<210> 52484

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E8

<400> 52484

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cccgtcctcg ggcgtgcca tcgcggcctt ctaccaccag tacatcctcc gggcgggcgc 240
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<210> 52485

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E9

<400> 52485

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 agcaccatcc aaatcagatc ttccaaccgc cgccgtgctt gcacaaaatg cctttgggggt 420

<210> 52486

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F1

<400> 52486

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<210> 52487

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F10

<400> 52487

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 cacattatc tcaaccagca tcaacatcgt caaatttgcc ttccgctggg ggtgcagttt 180
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gaaatgctcc gtggggctct tcagcagaac ctccagcagg aacgacactt tcggttccct 360
caatgtactg gcatggatac tatgcgcctt caagtgggct gccacctcat ttgcagc 417

<210> 52488

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F2

<400> 52488

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tggtttatat gcacgtgcaa aggagctctc tgagaatgaa atcagtcctt caaatgcttt 300
gattggatta ttagatggtt tgttgcaatc tggagcttca actgcacaaa agaaaaagat 360
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<210> 52489

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F3

<400> 52489

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tgatattgcc aatgagatac cagcaaattg gcagaagttg cagtatcttg catttgcaag 180
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<210> 52490

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F4

<400> 52490

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ttctattttca aaagttttgc attttgcaaa aaaaagatat aaaaaaaca aaaaaaaca 180
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tcatggatat ccacttatta aaccaaaaaa aaggggcggc ctttttaaag attccaaatt 300
taattacccg ggttttggag ttcataactt tttttt 336

<210> 52491

<211> 390

<212> DNA

<213> Zea mays

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<400> 52491

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cccctggagt tctatccaca aggggttttag cgcctaagaa tcataagggtg aggcgaaata 180
tttcagccgc tccaccgcaa cgaactgggtt tacattacca gtcctcaagg gggtcctagt 240
tcttgaacca taggtgaagc agacttatac cactattata gctgttccac cgtcgttcca 300
gattacatag ctatgcccaa tttccggtgt acatatatag tcggaaagtt atttggcaat 360
tggattgggc gttgctcgat atattcccta 390

<210> 52492

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-E11

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tactcagggg cagcgagatg ttcaacgaat ggactctgga actgaaggcc atggctgata 180
ggatcattaa catgaggcaa caactattta atgcgctgaa atccagagga acccctgggtg 240
attggagcca tatcattaag caaattggga tgtttacttt cactgggctg aatagcgaac 300
aagtcgcatt catgaggcag gaataccaca tttatatgac atctgatggg aggatcagca 360
tggccggttt gagcatgatg actgtgcccc atcttgcala tgccataca 409

<210> 52493

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C5

<400> 52493

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ctccctatcc gaccgctcc caatccgcct tctgccgc ccgctcctcg tcttctccca 180
actccgcgc ctctgccgt ccgacgcgt caccacaactc ctcttcacc caatcgctc 240
gtcctccac cttaccgct ccgacatcc cataggcctt cagcttcacg ggctctccct 300
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<210> 52494

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C6

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ctccgataat tctagcccta cagaaaacaa actccaacca ggtgaaaagt cctttgcac 240
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acaactagaa ccctatcgag tgatattgaa acaaccaatg caaggggaaa aatccttct 360

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409

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<212> DNA

<213> Zea mays

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caaagcctgt tttgaacgtg gaactgctga gtgctagcag cgctcgtgtt tattggcata 240
aaaaaaaaac attaaaaaat caaatagaaa taaaaaccaa accataaaaa aacaaaaaaaa 300
taaaaaaaaa aacaaaaaaaa aaaaaaaaaa aaaagggcaa ccaatataaa ataatgcaaa 360
ctaacaatac gggacaatcc aacatatgga tcttcttttt ggaggaccta aatttaaagt 420
aaaggccctc attataaaat aaaa 444

<210> 52496

<211> 430

<212> DNA

<213> Zea mays

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tcatgaactt cgtcggctgc tggttcggcg ccatgccgtg ctgtcacggc gcgggcggat 240
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gcgacatggg 430

<210> 52497
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-C9

 <400> 52497

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 atgggtgtcc accgaattat ctacattctt ttcatatgat atcagcaaag atgattcact 180
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 tattttgcac aattttgcat gggagctact gcagaagggt gtcaacattt atgaaaaatt 420
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<210> 52498
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 <223> Clone ID: LIB3079-055-Q1-K1-D12

 <400> 52498

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 tagcaagatg accctacatg atgaacttcg tcatgtggat gactcaagca agccattatc 360
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<210> 52499
 <211> 443

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-D3

 <400> 52499

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 ccaaggttgc agaagataat gcaagaattt gagcggcaga acgagaggat ggagatggtg 360
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 <211> 430
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-D6

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 catatattga aaaaaaata agagacactc gattcaacat cactgccaga gtaccagatt 180
 tgattttttt tttccggtgg cttagtggcc tagccagcaa gtcgagggtc tgatgaagct 240
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<210> 52501
 <211> 285
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-D7
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 aagacgagga atggctcctt ggaacacccc acccggacgt cctccctggg cggtacaag 180
 gccggccgga cggcgaggat ggccgagtcg tccaccggcc tcagcccaa agtcgaccgc 240
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<210> 52502
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-D9
 <400> 52502
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<210> 52503
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-E1
 <400> 52503
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gagccactcc tctagtgtcc caacgagcag aactgctcgc ccttgacaat ctctgatct 300
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<210> 52504
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-E10
<400> 52504

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tttgcccgcc gtttggccga tcgttaaagg ctgaataacc ggcggtggt tcggattacc 180
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<210> 52505
<211> 427
<212> DNA
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<223> Clone ID: LIB3079-055-Q1-K1-C3
<400> 52505

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ctcggaagg ggggtgctgc gcccaagccc atcgctgtca aggccaagct catctccaag 240
gtcgccgaga agaagatcaa agccgccggc tgcgccgtcg tgctaccgt ctagttttca 300
gtccttattc gcctcttggg ttgagatct atatctggac tagcagtgtt ttcttgtctt 360
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gctttct 427

<210> 52506

<211> 279
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-A3

 <400> 52506

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 tcaactgattt gtctgggagg gaaacttttg ttcggatcac tggcggcatg aaagttaagg 180
 ctgatcgtga tgagtcgtct ccttatgctg ctatgcttgc tgctcaagat gttgcacacc 240
 gttgcaagga gctcggatc accgctctgc acattaaac 279

<210> 52507
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-055-Q1-K1-A4

 <400> 52507

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 gggctcttgg ctcaattagc tgctgcgaaa gttgtagcaa cggcactttg caaaggttct 120
 ggtcttggtg gtggccttta tgctccaagt ttgatgattg gcgctgctgt tgggtgctgtt 180
 tttggaggct cagcagcaga attaataaac tctgcgattc cgggtaacac tgctgttgca 240
 catnctcaaa gctatgcact gggtaagtcc ttattttttg gcaatcaatt taaaccctga 300
 actctatatt gggctaactt ttcataccat ttaagtggga atggctgcta ccctggcttc 360
 aatgtgttct ggttcactga catctgtgct ggtactcttt gaattg 406

<210> 52508
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-A7

 <400> 52508

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gcagtgcacag acaagatggtt acttgatccg atttcttgtg agataattca ggactctgga 120
aaaccagaag gctgtctaca aggatttcca tggccgaaca ccattgcatc attgtgtcca 180
aaagaaaaat gatgagctca ccaagcatct gctgaagagg ggtgcgagaa cgacaattaa 240
agatggcgga agtctgactg ctctggagag aagaatggaa cttggagcga taactgatga 300
agacttattc atactatttg tgaagtgatg ttgcaaactt gcaatacaag cctttggcaa 360
ctagctgggtt gtacctgata gcattgtatt gtaccacact aatttagctt ctggaaagaa 420
catgatttct acac 434

<210> 52509
<211> 203
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-A9
<400> 52509

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tcaatccata gcttatttat tatattatat gctcttgtga catcttcttc cctggatagc 180
ttgatagatt cagctataga ctt 203

<210> 52510
<211> 307
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-B10
<400> 52510

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taagccactc gctgaaccct acgttgaggc gcgcgttgac caatctactt ctgaagaaga 180
tggtaggcaa ccatgtgtcg caatgctacc actaccacat catgcgcgac gaccgctca 240
tcattgcccc cgaatagaag gagcgtccag ctaaactgga aatgctgaat cgacttgaca 300
agggcc 307

<210> 52511
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-B5

 <400> 52511

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 ttttgacact gcaaccatct tatctgttgt tgctggccat gacaagatgg acgcaaccag 180
 cagttcacag gttgttccag agtacgcac ggagttgggc tccctagatt tactagaatc 240
 gaaaccatta aatgggtgtga gaattgggat tatacaagaa actcttgag aaggtgttgc 300
 cagtggagtc gtatcatcaa tcaaggggtgc tgcttcacac ctggagcaat tgggatctgg 360
 cgtggaagaa ggttcac 377

<210> 52512
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-B7

 <400> 52512

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 ggatccagat cctgttgtgt tccttgaaaa tgaacttctt tatggtgaat catttcctgt 180
 atctgctgag gtacttgatt ctagcttctg ccttccgatt ggaaaggcta agatagagcg 240
 acaagggaaa gatgtcacta tcactgcatt ctccaaaatg gtgggatatg cccttcaggc 300
 cgctgatata ctggccaaag aaagtatcag tgccgaagta atcaatcttc gctcaattag 360
 accgctggat agagctacta ttaatgcac tgtgaagaaa accaatagat tggtaaccgt 420

<210> 52513
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-B8

<400> 52513

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tgctcattgc atttgggttt catggatttt gtcttcatta tcttatattt gttatgcacc 120
ctcatttttt gtgcaggagg catgctctct tacttcccaa gatctcttgc acggaaacac 180
atccaaagat agcacagctt ctagaacatc acaaacctaa tgtgtcactt cttatgctaa 240
agtgtgcaga gtgcgatagc ttctctgcta cagaaaactt tgaaaaagat ggcggttcat 300
ct 302

<210> 52514

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-B9

<400> 52514

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ttagtaacaa ttgcaagtga tacgtcattc tacattttga aatataatag ggatgtagtt 180
tcatctcatt tggatagagg gggttcagct ggtgaggaag gtgtggaaga tgcctttgaa 240
ctgcttcatg agatcaacga acgtgtccgg actgggctat gggttggcga ttgtttcatc 300
tacaataatt cttcatggcg tcttaattac tgtgtaggag gagaggcac aactttgttt 360
cacttggatc ggccaatgta tttattagga tatcttgcaa accaaagccg tgtctatctt 420
attga 425

<210> 52515

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C10

<400> 52515

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 actaaccctaa tttttaccac attatcactc aaaaaactcc tgacctaccc aactttttca 180
 ttctgctatt attcactcca ttgcctccg gcatcatatg ccgtacacat att 233

<210> 52516
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-C12
 <400> 52516

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 cgacgtggag gccgcctccc acgtgagcca ggccgaggcc gagccgccg tcagcatcca 180
 gagccaggcg ctgggtggcg accaggaggg tgaggaggtc aggttgaac tcacgctcgg 240
 cttcgagcca gtcgtcaggc agcagccgag gctgtcgtgc tgcgactcga gcggcttgag 300
 cgccgcgtcg agcctcatcg gcctgcggct gcagctgcca gccgcctgag cagaggaggt 360
 catctcattt cacaaggcac agtggcacac caagtgcagt tttgcaacca 410

<210> 52517
 <211> 248
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-A2
 <400> 52517

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 ctgttaggat actgtcttgc tgatttttaa gcgaacgttt actcacatcc tgccatgctg 180
 gttactgaat ggtcaaccgg gatatttgct tttttgttcc ttgagacctc gattggcatc 240
 ttccggtt 248

<210> 52518
 <211> 405

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-G9

 <400> 52518

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 gaaggggatg ggaaagacac tctttgaacg ccttactgaa gcttatggag aggaaatcac 180
 atccatgctc actgtgcagt acagaatgca cgagcacatt atgagctggt catctaaaga 240
 actttacaat aataagatca aagcacattc tagtgttgct gggcatatgc tctatgatct 300
 agaagaagtc actagatctt cttcaacaga accaactatt gtactcattg acactacaag 360
 gtgtgatatg gaagaaagta aagatgaaga ggagagcacc atgaa 405

<210> 52519
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-H10

 <400> 52519

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 ggcgtgaaaa acatgaattc agctaccaca gatgggctca tcttgggggtt ccgatgctta 180
 tatctggttg tgatgacgcc aagctgtttg catattcagc aagagagttt actcagttct 240
 cacctcataa cttctgccct gcacctcaac accctttgat aaagctggct aggaatagca 300
 cagtcaatgg agattatgta atgcttgtcc agtcttcgaa cttcttggat gttttacttg 360
 tgacagttca gaacaagctg acgactccaa gtacatcatc atctagagga gatgct 416

<210> 52520
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-H11

 <400> 52520

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 acaaggacca cggcggcgtg cagcagcgga ccaccgtggt gctctgggag tggtgcaagg 180
 gccccaacca gagctggaag gtgctgccct ggggggacga ggccctacgag ccgcgcccgt 240
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<210> 52521

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H2

<400> 52521

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 aggcttctcg cgaatctaata cgtcatgggc ggaaccgtgg ttggcagggc catgctccag 180
 gcctaccgcc aggccatcgt caatgcaaac aaaactggag ctgcccaga agctataaat 240
 ggtattagac gggctagcaa ggccatgact gagcaagaag cccggcaaata tcttggtatc 300
 agtgaaaatt cgacgtggga agagattgtc cagaagtacg acacaatgtt tgagaggaat 360
 aacaaaaacg gcagcttcta tctccagtca aagggtcata gagcgaaaga atgcctggaa 420
 cctttatatc aaaagcctga tgtactgaac tgaga 455

<210> 52522

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H3

<400> 52522

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 accagggaca cactgcgccc gccctgcgc cggcctcctc gcctgcacat gcacctacac 180

ctgcccttgc gcgggtctcg ccgtcgctg cccctgtacc ggtctcgccg tcgccgtcgc 240
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 ccaggcgctg cccagcgcca tcgccagagc aactacccc agtccttcg ccagacgcgg 360
 acgggcaacc gcctgcagat cagaagaaca acgcagcaag ggacacggca tcttggaata 420
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<210> 52523

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H4

<400> 52523

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 ggacgctgaa tgcaacaacc ttccagtcag ctgctatata aagtgcctgc ggccggggcg 180
 ctgcaacagc tgctgcaagc agaatcactt cgtacgtgga gagtgcatcg ggtgggactg 240
 ctgggtgctg agagcctaac tagcctgct ctcactgac caatgcaaag gagatttact 300
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<210> 52524

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H5

<400> 52524

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 acatgatcaa ttatcctgcc tatgcatatg acatcttcat tacatacacg tacaagctct 180
 gctgtccact atgatgatgc aattactgat tatgcatgtg acagattgca ttttgagccc 240
 aatttctcac ttccctttgt actcaacctc cattgctcct gatggtggaa cttttgcttt 300
 ctactaactt aatgcaaaaa c 321

<210> 52525
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-H6

<400> 52525

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ggcgcacctg gttggcagct tgggtggaca tgggcaaaga aggaggttat atggtcaatg 180
gttggggctc agaccactga acagggcgac tgctcaaagt tcaagagcag cccaccccat 240
tgctgcaaga aagatccaac aattgtcgat ttacttccag gcactccata caacatgcaa 300
attgccaatt gctgcaaggc aggagtgtga aataccttta accaggaccc aacaaatgct 360
gctttctcct tccagatcag tgttggtcct gctggaacta ccaataaaac tgta 415

<210> 52526
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-054-Q1-K1-H7

<400> 52526

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cagtcacaat ccttccatcc ttatcatgag ttccattagt tcaaatacac atacacctat 180
gcttttctgt ctgtttacgt tgattacccc tgtatcatac tctaaatcta caatatagcg 240
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aaacattaac catagccatt tact 324

<210> 52527
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-H8

<400> 52527

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tcgggggctaa caccggcgaa gccgggggcg gtcgaggtgc agcgccgacg ggtgggcagc 180
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gtaacatcat ctcaggtggg ctcaaatgat atattcccag cagctgttgt gaaggccatg 360
ctctaccctg gagctaccgt gagcagccta acttaaagcc agacatttcc gagttggaat 420
gacctgtttg acatg 435

<210> 52528
<211> 380
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-H9

<400> 52528

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ggtcgggggg attggatctt ataccatgtg ggaagagcgg agcagtgatg ctgcattcag 120
tcatcgctga tccctctctt attcgaaaac agtctgtagc atgttcataa tagctattag 180
ctagaactag aaatgattcg agggcaattt cagaaaatgc taaagaaaca tatgctgtat 240
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aaaaatgtat tttttttaat 380

<210> 52529
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A11

<400> 52529

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cagcatttcg gcaccgtcgc tgagcagcag gcagattcac ttggttacat ttgcccgtcg 180

tgcaaggga agttttctgg tcatcttggc attaacggtc catctatttg aaatcagttt 240

cttgtaacct gaactgggtgc tgctgcccc ccatcaattt atagtctagt tgatatgaat 300

acgtttgtac ttgtagtatg ta 322

<210> 52530

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-A12

<400> 52530

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gtggagccaa ggtgggtgagc gaggcggtgg ccaattccgg cgcctcgccc ctgtctccgg 120

cgatcacctt catcttggac aaggctgcac cgtacatccc caaggaggag cccaaggcgg 180

aggacgcggt ggctgaggcc acttcccggg aagtcgccgt ggaggtggag gatgccgagc 240

cggctatagc tgatgcagcg gccgagacac catcggaggc gaagaaggga gaggaggaaa 300

agccgggtgc cgaggaggcg ggcgccaccg cagcggctgc tactgaggag aagtaatact 360

ccgatccaca gccatgcctt ttctacgta gctgcagcag agtgaaaagt gattcagtca 420

gt 422

<210> 52531

<211> 422

<212> DNA

<213> Zea mays

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<400> 52531

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gtaccagtgc atggaccgcg tgcccgactt ctgcctgcgc cgctgcaccg cccccgccgt 180
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 ctgagccaca ctgtggatta ggttttttct tagttgatgc cgcattggaaa gagaggctgt 360
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<210> 52532
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F2

<400> 52532

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 gtggccaccg tctcgtcacc gccaggcgct ctcccgcgc cgcgctctctg ccgccagttc 240
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 gcttttggcg ccattgccga gctccttgac aatgcaatcg atgaggtgaa caatggggca 420
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<210> 52533
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F3

<400> 52533

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 gcagcagcgt accatcgagg caatggcggt gatggccgaa gtagtgctga ccaccggcgc 180

ggcgctccgg agcccggcca cgcagcagcc ggcggcggcg ggcgcggcga agggcaccga 240
cgctgagaag ctccagttca tcgaggacat gacctccaac gtggacgccg tgcaggagcg 300
cgtgctgggg gagatcctcg cccgcaacgc ggacaccgag tacc 344

<210> 52534
<211> 454
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-054-Q1-K1-F4
<400> 52534

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tcacagcatc atcgtcctc gagatcctgt cattggttat cttgaaagat acaaattaca 180
tcagcacgct tgcacaggg ccttatggtc tcatatttgc ctcttttgtt cccttctttc 240
ttgacattcc aatcacatca cggttccgta tttttggtct gaatttcagt gacaaatcat 300
tcatttactt agctggtttt cagcttcttt tatcttcttg gaagcgcctc cttattcctg 360
gtatatttgg tctggttgct ggttctctct atcgtctaaa tgtgctcggc atccgcaaga 420
tgaagcttcc acaggttatt tcatcatttt ttgc 454

<210> 52535
<211> 376
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-054-Q1-K1-F5
<400> 52535

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cgagcgtctt ttctaagagg ctccatgcat tacttaacgca tgcttgcaac ttcgtatctc 120
ttctatcgca tcaccttaat tcaattcaat gcccgcatth ttacaacttc aagactcgaa 180
aaacctttgc gttcccgaat taaatcctct tgggtgaatt tctcctttca acagttacct 240
taatttcgaa attgccatca catcacggct ttgcctacaa gggctcaacc tgaatgacaa 300
atggtacacg cacttaactg gtccttaaata cgcaacatct ttactgatta ccccatcat 360

gcccgggtaca ttgccc

376

<210> 52536
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F7

<400> 52536

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gacttatgtt ggttttcagg ctgtaatgac cgaggaaatg tcagaaaaat ttcgcgggtt 120
gcctggagta gttttcattt tgcctgattc atatctatat ccagaaacaa aggagtacgg 180
aggagacaaa tatgacaatg gtgtcatcac tccaagacca ccacctgttc attatagcag 240
accatcaaga actgacatga accgtaacta ccgaggaaac taccaggatt gcccttcaca 300
gcaaggaaat taccagaaca accgtccttc accagaaagt ggttaccaga acaaccgctc 360
gcagcaagga aactaccaga cataccgctc gcagcaaga 399

<210> 52537
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F8

<400> 52537

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gacttatgtt ggttttcagg ctgtaatgac cgaggaaatg tcagaaaaat ttcgcgggtt 120
gcctggagta gttttcattt tgcctgattc atatctatat ccagaaacaa aggagtacgg 180
aggagacaaa tatgacaatg gtgtcatcac tccaagacca ccacctgttc attatagcag 240
accatcaaga actgacagga accgtaacta ccgaggaaac taccaggatg gcccttcaca 300
gcaaggaaat taccagaaca accgttctac accagaaagt ggtaccagaa caaccgctct 360
cagcaaggaa actaccagac ataccgctcg cagcaagatg gaagaggcta ttccccacag 420
cagaattatg cacaaggtgg tca 443

<210> 52538

<211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-F9

 <400> 52538

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 gcttggggac ggggtacctt tgcaaacgaa aatccacaat attggcgcaa cactttagg 120
 agttgacaag tttggtaaca aatattatga gaaactacat gacactcagt atggaaggca 180
 taggtgggta gaatatgcag agaaaggctg ttacaatgca tccaagtgc ctgctgaatg 240
 gcatggatgg ctgcaccaca tcacagatag caccggggat 280

<210> 52539
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-G1

 <400> 52539

 cccacgcgtc cgagcagctc gccctggccc gacgcctctg ctgggccagc agccttcgag 60
 cccgtattcc cctgctcggt ctcccttacg cagcagcagc cgtaccttcc ctgcagcgcc 120
 cctctccatt tttccctctt gctccctgtg cggcgagctc atgtgctcac agcacctctc 180
 cctgccttct ctctgtcccc agcgaccagc agcaaggaca acccccttcc ctgctcctt 240
 tcggatgtgc gcgaggtggt cgacacaatg cctgcgagga aggaccgaga gatgatgatc 300
 gagccagtga tgtggtgcca accacaagat gccgtggtgg acgac 345

<210> 52540
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-054-Q1-K1-G11

 <400> 52540

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gtccacctgc ttgccacct ctacatcaat gacctgaaca gcgcgcgggtt cttctggaag 180
tcgttgccgc aggaggtcaa ggacacgcgg cggagctcg ccgctgtctg gaggattggt 240
cagtgcctct ggaaaagaga ttatgctggc gtcaacacgg ctgcacaggg gttcgagtgg 300
ggtcctgacc tcgctgactt catcactgcc ttcctagaga gctacagaca gaggatattc 360
aagctgttga cttctgcata ttccacaatt agagttgctg atgtggctca tttcatggng 420
atgagtgagg agga 434

<210> 52541

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G12

<400> 52541

gacatccacc accaccccat ggcgtgtacc cgccgcgcgc gcagggtcct tccccccag 60
cgcaggagcc tccaccgggg taccagggct acttcaacga ccagcagcgt ccttactacc 120
cgccgcgcga tggagagcat caacacaacc accaccaggg aaaccagggg agctcctctg 180
ggttcctcaa aggatgtttg gctgctctct gctgctgctg cgtgctggag gaatgctgcg 240
gctgcttctg agacgtgaga tgtccgggaa tccgatcgca agttatcgtc gctagcattc 300
gggagcacc cagttattat catataatag taactgtgct tgtaaataat ctggagcagc 360
agtgttcag agtcccagc cccgcattta tattctcata attttagta cgttctatga 420
tttatccgaa aataaaggac tctatatatg g 451

<210> 52542

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G2

<400> 52542

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ctgacgagga gtcgtcgatg gatcttggtc tgagctttga tctctgtctt ggtcatgaca 120
ctgcacatcg tcacaagaag ccatcggcag gtgctccgaa gttggacctt cagttgagcc 180

tgtccacctg ttgcctgaa tcagccttga ccaatgtaag tgccaatgat ggcttagaga 240
 cagtggcaga tactactact actctggaaa agctagagcc ctggatcttc aggaattaca 300
 tggcttcac atcatcatat gcatatgctt ctgaaacaac ctacggcctt tctttgccaa 360
 agatacctga agatgtcgtg gtcgtgcctt caacaacaga cgtgtcatca gccgttacgg 420
 tgagcgtgaa aaagcccgt ccgaaacgga gcaatatt 458

<210> 52543
 <211> 149
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G3

<400> 52543

atcccggtcg acccacgctc gcccacctcc gaaaaaaaaa aaaaaaaatt aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaagg agggaaaaaa aaaaaaataa aaaaaaaaaa aaaacaaaaa 120
 actaaaacaa aaaaaacgct gcccatTTTT 149

<210> 52544
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G6

<400> 52544

cccacgcgtc cggacctgtg ccgcaaatac gcctttggca agatgcttgt ggtaggctct 60
 gagccccctt tcaagggtcaa ggggctctgg ctcttcaggg gctcagaaat tcccaagttt 120
 gtcattggacg aagtctatga catggagctt tatgagtggc ccaagggtga cctctctgat 180
 gaggcacaga aggagcgggt caatgccatg attgaggacc aggagccatt cgagggcgag 240
 gccttgctgg atgcaaaatg ctccaagtga ggaaagagtt tttgggtcca attctaaaac 300
 agccatggat gatagctttt gattatgcgt gctggttatg attatgctgt ggagttttgg 360
 ccatgttaac gggaggctgt gctcgcaaaa ccttctgcat tatcgcatcg gaatcgtttg 420
 tcatgtgcat cctagtgaat agatatatta tgaaaatat 459

<210> 52545
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-F12

<400> 52545

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ggcagggcgc ccaccgatcg accttcacgc cagtctcggt ctcttccgaa ggcgtcgcgc 120
gcggttggtt gagaggagag gaggaagatg agggagtgca tctccgtcca catcgggcag 180
gccggcatcc aagtcggcaa cgcgtgctgg gaactttact gcctcgagca cggcatccag 240
cctgatggcc aagtgcctgg agataagacc gcgggacatc acgatgatgc cttcagcacc 300
ttcttcagcc agactgggtgc tgggaagcac gttccccgtg caatcttcgt tgatctagaa 360
cccactgtga tcgatgaggt gcgcactggc acgtaccgnc agctcttnca ccctgagcag 420
ctcatcagtg gcaagga 437

<210> 52546
<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-D7

<400> 52546

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ggtgctgatt gatgaagaca gtctcttgac tgaggaggac ctgaagaaac cacaacttcc 120
agttgttggg gactgtgagg tgggggcagc aaagaaagca tgcaagaact gtacttgtgg 180
cagggctgag gccgaggaga aggttgggaa gctggagctc actgcggagc agatcaataa 240
ccctcagtca gcttgtggca gttgtgggtt gggatgatgc ttccgctgtg gaacctgtcc 300
tacagaggtc ttccaccatt caagcctggc gagaaggttt ccttgtctgg caacttcctt 360
gctgctgaca tatgatggca tcgccaacat cggcaaaaaca aggagacggn ggtacctacg 420
ttgttagtcg actgaactgc attccaaata gctt 454

<210> 52547
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-D9

 <400> 52547

 cccacgcgtc cggcatgagt acacccttct tcagaaggac accaagtggc ctctcggttg 60
 gccgctgggc ggctaccctg gccctcaggt agattagatg gatctgcgtg cctccaggct 120
 ccagccatat cgatggcttt gatcagctga cggaatgata ctggcaggga ccttactact 180
 gcgccgtcgg agcggacaag tcttacgggc gggacatcgt ggacgcgcac tacaaggcct 240
 gcctctacgc cagcatcgac atcagtggca tcaacgggga ggtcatgccg gggcagtggg 300
 agttccaggt cggtcctgcc gtcggcgtct cggccggcga ccagctctgg gtggctcgct 360
 acatt 365

<210> 52548
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-E1

 <400> 52548

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 tgggggtgtaa gagagtatga tatgcatagc tatcattcgt ttaaccataa tctatttaat 120
 ctcccactga atcctacgtc atctatccct gttggaaacc tggtaatcat cgttggtgat 180
 ctcaaaaatc ctcaactatt gcttcctatt tcaggaaatc ctattcattc cattaaaggc 240
 cacttgatatt tctcctttgc tccgacttgg agcccaaagt gcctaactatt acccacatgc 300
 aaccaagac 309

<210> 52549
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-054-Q1-K1-E10

 <400> 52549

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 agctcgagag agagagagag agaaagatgt cgtgggttcgg gcaccaccac cacaaccagc 120
 cggctcccc cgcgtcgggc cccaaccagg tgttcaagat cttctgccgc gccaacgaga 180
 actactgcct ggccgtccgc gacggcgccg tcgtgctggc cccggccaac cccaaggacg 240
 accaccagca ctggtacaag gacatgcgct tcatcaccgc ggtcaaggac gaggaaggca 300
 tgccggcggt cgcgtcgtc aacaaggcca cggggctcgc aatcaagcac tccctcggcc 360
 agtcccaccc ggtcaagctc gcgcctttc 389

<210> 52550
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E11

<400> 52550

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 gtgacaagat tgggtgtatt ggaactgttc cggttggtcg ttggagactg gtgtcatcaa 120
 gcctggaatg gttgtcacct tcggtccaac tggcctgacc actgaggtga agtctgttga 180
 gatgcaccac gaggtctctc atgaggccct tcctggtgac aacgttggct tcaatgtgaa 240
 gaacgttgct gtgaaggatc tcaaactgtg gt 272

<210> 52551
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E12

<400> 52551

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 cgcaggcatg gaggggaagg aggaggacgt ccgcctgggc gccacaagt tctcggagcg 120
 ccagcccatc ggcacggcgg cgcagggcac ggacgacaag gactacaagg agccccgcc 180
 ggcgccgctc ttcgagcccg gggagctcaa gtcttggtcc ttctaccgcg ccggcatcgc 240
 cgagttcgtc gccaccttc tcttcctcta catctccatc ctcaccgtca tgggcgtctc 300

caagtccacc tccaagtgcg ccaccgtcgg catccagggc atcgcttggg ccttcggcgg 360
catgatcttc gccctcgtct actgcaccgc cggcattctc ggcgggcaca 410

<210> 52552
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E2

<400> 52552

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gggtgtggctc gccagaagg acacggacgc tgaatatgga caggactgca tgcattgggtg 120
cctgcctggc gtgactgaca cttgggtcga catctgggct gcacagatca tgcattcactt 180
caagcaggag aaaggtgat cacaatttct ttaaactctgt agttttgcga taactacagc 240
aactgtgcta gaacttttta gatttgtatt ttagggataa cataacaaac attaaatagt 300
tttgcaaata ttcattaggt taggtctccc ataatgctat agtgatgcac aaaactaatg 360
ggcaccacac cgaacatcgg aacatcccag tgctggagtt ttcaaataag gtcctcttta 420
aatctgtagt gtttaaataa aggtttggta gagtttctct 460

<210> 52553
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-E3

<400> 52553

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gtccgcgggg tttgatcccg aaaccctaac ccacatcccg gggccccaa tctccttcga 120
ctccgacccc gacctccgcc acctctctcc ctgctgacc tgctccccgc ctttctgggg 180
ctgcctcgat gacgcgcta gtttcgagt ggaggagatc gcggacgctg ccctcggcgt 240
cggcgggtggc gctggcggcg ccggagggg aggacaagga ctagaaggag acgccgatgc 300
cgacgccgac gtgttcgggt tcctcgacga gcgggagatg ctgggcgtga tggaggcat 360

cgacacggtg gacgacgact cgatcttctn cgatgagcct ccgtttgact tcggcgatgg 420
cgacacggag ct 432

<210> 52554
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E5

<400> 52554

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gaccactgct gatgggttact cgctgtgctc caaggagatg accaagctct ctggtatctc 120
ggacatcatc ccagagatgg agatctgtga cttcgacttc gagccctgtg gctactccat 180
gaatgctgtt catggccctg ctttgtcgac cattcatgtg accccagagg acggcttcag 240
ctatgcaagc tacgaggtca tgggctttaa cccgggctct ttctcttatg gtgacctggt 300
taagaggggtg ctgaagtgtt ttggccaac tgagttctct gttgccgtga ccctcttcgg 360
tgatcgggac aatgcgaaga cctgggggac gaaactggat gctgaggcct atgcttgacg 420
caacatggtt gagcaggtgc tgccgtttgg tg 452

<210> 52555
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E6

<400> 52555

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agcttactga atttagtgac acaacaatcg atccatctct tccgaaacct gcatttcaag 120
ttgctaggaa ggctcagggc tcagtgggga aggggagaga aacgactgca gttgaaatga 180
agaaggggtga ctggttgtgc actaactgta acttcttaaa ttttgctcgc aatcgctact 240
gtctcgaatg caaagcagat ggaccaaaga agatagaagc ggccgtggat gcaatgaaaa 300
tgggcgattg gatctgcaca cagtgtcagt ttatgaactt ctctcgcaac aagatatgtt 360
ttaaagtga agaacctcac ccgaagaggc aactcaatcc tggagagtgg gagtccccct 420

catgcgactt tgtaaacttc cgacgcaacg c

451

<210> 52556

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-054-Q1-K1-E8

<400> 52556

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acatcgacgc gactctcgcg cccctgttcc ctccccaccc cgtcgccgcg ctctcgcccc 180

tctccacgct gggcctnccc gaccgcgcct ncgctctgct cggcaccatg acgtcgccca 240

ataccgcgca cctgaacgcg gtctctggtc cactcctccg ccgncgncgc ctggccgggc 300

tcgtgccctc aatcctcgcc gcgcatgcct ctgtcccgcg ggacgccgtc acggacagca 360

tcctcgccaa gtcgtctt 378

<210> 52557

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-E9

<400> 52557

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ggaccttcca ttgaatgttt ctctgagat tcttcaagaa agtcgaattg ttcgtataat 120

gagaaaaagg ctggtgcgga aagcctttga tatgatactt ggcatttctt gcagtgaaaa 180

tagagatgat tatgaaaggt tctgggagaa ctttggaaaa tttttaaaagc tgggtgccat 240

ggaagataag gaaaatcaca agagaattgc tcctttgttg cgcttcttct cttctcaaag 300

caacaatgaa ttaattagct tggatgaata tgtggaaaac atgaaacctg agcagaagga 360

catttacttc attgctgcag atagtatgag cagtgccata aatgctcctt tcttagagag 420

ac 422

<210> 52558
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-F11

<400> 52558

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gaacgcggac ctgtgcagga tcatcaactc tgachagggtg cagtctgtgg tgaagccact 120
caacaaggaa gtgaagcgca tggagaagag gaagaaccca ctcaagaaca tggctgctgt 180
gctcaaactc aacccttacc tcggcactgc ccggaagatg gccacccttg ctgaggctgc 240
tcgtgtgaag gccaagaaag cgaaactcga ctccaagaag accaagctta ccccgagagac 300
tgccaagggtt aaggctgctg gcaaggcatg gtacaagacc atgggtctcg acagcgacta 360
caccgagttt gagaacttct caaagtggct cggcgtgact cattgagcgg caagggtta 418

<210> 52559
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-C1

<400> 52559

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gcggtggtgg ttatggtggt ggcggacacg gtggagctgg ggctccgagt gcctgggatt 120
gatgttacag ttgctcccaa gtagaggggt ctgccaagtt taggtcactt ttactctag 180
ttctatttag gtatacat tggtaggag ctgttataca gcaacaagta caaggtgaat 240
gtggcatcc cctttcttct tctggttgct actggctgca gtcttaatat tgcagatgtt 300
cattacgaag agggctctga ggacattcaa gcacacgaga ttcttagtta ggtgaaattc 360
cttgtaggg atagtagcta ggctctgaca agtagtgctt ggtgccctnt gctctttttc 420
cctttgtcag cgtcgaattt tgggtggtc 448

<210> 52560
<211> 409

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C10

<400> 52560

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 gagatggctc ttcaagacag agtaatggaa gaaacaaagg agaagaagaa tgctgttgaa 180
 gcttatgtgt atgacatgcg taacaagcta tatgacaagt acagtgattt tgtcacacct 240
 gaggacaagg aaggtttgat cggtaaactt caagaagttg aagactggct ctatgaagat 300
 ggcgaggatg agaccaaggg agtttatatt gctaaactag aagaacttaa aaaggctggg 360
 gatcctattg aggtgcgctt caaagaatgg gagattagag gttctgctg 409

<210> 52561
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C11

<400> 52561

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 ttggtaccga cactgaaaca gaagatgata catcagaaaa ggagaaatct gattcacctg 180
 tagctgacaa gctgggtaag tcgaaacgtg taacagatgc agaaatcagt aatcctgctt 240
 ccaaacccaa gaaaaatgat actggcctgg ataggactat atttattagc aaccttcctt 300
 ttgatataag taatgaggag gtaacagcgc gcttctcagt cttt 344

<210> 52562
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C2

<400> 52562

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<223> Clone ID: LIB3079-054-Q1-K1-C3

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<210> 52564
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 <212> DNA
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<223> Clone ID: LIB3079-054-Q1-K1-C4

<400> 52564

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 agatttgtag ttgtcatgtc aggatctgat gaaaggacta ttcttgggaa tactattgct 240
 gttcaagctg acatgccttt tagcggctctt acaacatttg ggactgcatt tttatccaag 300
 tttgagtgtc ctcaaagtcg acattcactg ctagagcata tcacatttgt tgacacacct 360
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tcat

424

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C5

<400> 52565

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C6

<400> 52566

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agaatatatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa ataaaaaaaa ataaattcaa ataaccaaaa aataaacaaa aacaacacta 180
ttaaaaaaat aaaaataaac aaat 204

<210> 52567
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C7

<400> 52567

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 caaaaaaagc tcatcccttt ttactgaaca aaccttgcct ttccttcact taatgacctt 180
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<210> 52568
 <211> 376
 <212> DNA
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<223> Clone ID: LIB3079-054-Q1-K1-C8

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 cttcggcctc gtctcctcgc agacgcagca cttcctggcg aagatgctgt cggacgcgga 180
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 cgtcgcggga ctccgcgagg tcggcatcgc gtgcctgccc ggcaacgcgg ggctcttctc 300
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 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-C9

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 ttggaagaac gaggatgatg tctctgacac ttacctcct cagtccatgc atgacaagaa 240
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tcgtgcaaaa agattagccc aaggccatca tataaagggt gaagtcagta ctacaatgcc 360
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<210> 52570
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D1

<400> 52570

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gcctgaggct tgtgcagagt ttgagagagt acttgccaag caagcaacca cccaattgtc 180
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gtgcccgtct gaagactgca actttgtgga ggctctgccc aagccatctt tttgagttga 360
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<210> 52571
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D11

<400> 52571

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aaaatgaact gaaggagtat ctctgaaaaa ttgcagcttc aaaatcacgt actagatgtt 180
catgagcttt tcatagaaga ctactattca tacatattat gttcccatatc ttgtttcacg 240
attatccttg cagccattca aatgttgatg ccctgtactc tttatggagg ttacaaaccg 300
tatagtcaaa cttatatgtg tcaagtttgt aagggttttc atggaaaatc tgaattgtat 360

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365

<210> 52572
<211> 241
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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tctgccttcc taaagaacca aatcttactt cccctttcat ccaacataat aactattcca 180
tagtgccacc caaattaaana aaactccccg aacatttaac aacattaata acttaaaaaac 240
c 241

<210> 52573
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D3

<400> 52573

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<210> 52574
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 52574

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atgctcaatc ttctagcaag cctaataaag gccattgagc gacgaggaac gccgtgtcac 420
ttgcaatgac cagagacggg aggtcttcg 449

<210> 52575
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B9

<400> 52575

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tgacaatata actttgatga tgaacagtgg caagtgaaga ttcttatggc aggaacgatg 420
tttgggtgctc g 431

<210> 52576
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A2

<400> 52576

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<210> 52577

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A3

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caaacatcca gggcaactga aagatcaggt tacttctcca gcaggtacta ccattgccgg 360
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<210> 52578

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A4

<400> 52578

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 <211> 438
 <212> DNA
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<223> Clone ID: LIB3079-054-Q1-K1-A6

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A8

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<211> 426
<212> DNA
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<223> Clone ID: LIB3079-054-Q1-K1-A9

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<223> Clone ID: LIB3079-054-Q1-K1-B1

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<223> Clone ID: LIB3079-054-Q1-K1-B10

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 <212> DNA
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<223> Clone ID: LIB3079-054-Q1-K1-B11

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 <211> 449
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<223> Clone ID: LIB3079-054-Q1-K1-B3

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 <211> 446

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-B5

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<212> DNA
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<212> DNA
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<223> Clone ID: LIB3079-054-Q1-K1-B8

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<210> 52590

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F7

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ccaaagccac aacaccctca ccaactcaac caacatccag tacactcagg ctatcatgaa 180

ccactagcta acgaccaacc catgacaaca taaccaacta aaccttgaac gatgcagcag 240

cacctactaa cagtctcgct aaaactacat ccacatctaa acctaccaat ccgccaacta 300

aaacaggatg cccatccaaa cagcttaacg gaactaactt tcaataagga cacaataaaa 360

ttcgccaaaa aactccaaat aaatcctccc aa 392

<210> 52591

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G1

<400> 52591

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agaaaaaaat aaaaaaaaaa aaaaaaaaaa caaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaca aaaaaaaaca aaaaaataaa caacaacaaa aaaaagggcc 180

accgactacc aggtccccac gaacatcccc catcatcaa

219

<210> 52592
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G11

<400> 52592

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gagtcctccg acctgcgaga tgcgtttggc caggtccgac tcgttgacga cggcctcgaa 120
ccccacctcc tccgcggccc ggaccacggc gtcgaggttg aggagcagggc gagtgcgggtg 180
gcgcgagatg accagcagcc ggggcttcct ccccggtccg tcgccgagggc gcgtggggcgc 240
gtcccgggtgc agcgagagcg cgcgccggag gaaccgcgtg aagtccggcg tggcgagccc 300
gtccaggctg cggtcgcgct cgatgatgag ctcttgtg gcgcgcagggc tgaccacggc 360
gcgcgggaaa cagt 374

<210> 52593
<211> 183
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G12

<400> 52593

gccaccatc gcgtctcacg aggtgagtag tcttccgacc tgcgagatgt cgttcaccac 60
gtccgactcg ttgactacgg cctcgaacct cacctcctcc gcggcccggg ccacggcgtc 120
gaggctgacg agcacgcgag tgcagcggcg cgatgatgacc agcagccgat gcttctctcc 180
cgt 183

<210> 52594
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G2

<400> 52594

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 ttccccgacgc catcaaggcc gagctcgaga ggctcttctt ggacaaggta atcacaaaac 120
 ttgggctgtg cgtgtctgtc tatgatatcc gatccattga aggcgggttcc atccatccag 180
 gggagggctg ctcgacttat aaagtttcat ttcgtttgct gatgttcaag ccttttaatg 240
 gggagattct tgttgggagg attactggat atgacgataa gggattgcag gtttcacttg 300
 aattcttcag tgacatttgc atacctggac acttgatgca gtttggcaca gtaaggggac 360
 cagatggtag gtggatgctg aagactgaat taggcgatga gctttatcta gatctagatg 420
 acgagataag gttcttggtt tctagcacia aa 452

<210> 52595
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G3

<400> 52595
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 ggttcacttg gcaagggcct aacggccggt tctttcggtt tcttcccttt ctttcttgge 120
 aacttcggcg ggttttcc 138

<210> 52596
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-G4

<400> 52596
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 tctgctcagt nctctttgac ccaaaccctg atgatcctct tgtccctgag attgctcaca 120
 tgtacaagac cgacagggcc aagtatgagt ccaccgcacg ctcctggaca cagaagtatg 180
 ccatgggcta gaagcaaggc taaaagctgg ccaaactggt gaatgtgccg gaccccaaatt 240
 cgttatcacc taaataacca gtcaagtcgc aagtatgaat ggacttttga ggaccattgt 300

gccctgttga actcatgtat taccttgtga agtccgttgt gtctggtttc tacctgaccg 360
 tttcgttatc tgatgctgat tctttaaaaa aaaaaatgat aaatcggggc cttaatttag 420
 ggtcctatct aaaggtttaa ggct 444

<210> 52597
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G5

<400> 52597

gttggttctt cctccccctc cggttcgggt tccgggttcgt gaggttctcc ggggttcggg 60
 tgcggtgggtg agcggatcga gatggcggcg tccgatgttg agtaccgctg cttcgtcggc 120
 ggccctcgctt gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180
 gtctctgagt ccaagatcat cctcgatcgg gagacgcaga agtcccgcgg cttcggcttc 240
 gtcaccttct ccacggaaga agcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc cgaacatcac cgtcaacg 328

<210> 52598
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G6

<400> 52598

gggagcaaga tggggtcggg atctttcctt taggtgctgg ccaataactt cgatgtcctt 60
 ggcgggcttc cattttgggtc gtatgcaaag ctgttcttta actgctgggtt ggtcttgctt 120
 tgggttcaatg gtgctgccta tgtttacgac cattttgtcc ggtcaatgtt tgtgaaccgt 180
 caaatagtga acatatggta cattccaaga aatgagaagc taggtaaatc tgatgatgtt 240
 ctgtcagctg cagagagata tattgaacaa aac 273

<210> 52599
 <211> 95
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G7

<400> 52599

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aagaaaaatt ttaaaaaacc tatttctaaa tccca 95

<210> 52600

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-G9

<400> 52600

aaaaaaagaa aaaaaaaaaa aaaaaaaat taattaaaaa aaaaaaaaaa aaaaaaaaaa 60

ggaaaagaaa aataaaaaaa ttagagaaaa cccaaccc 98

<210> 52601

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H1

<400> 52601

caactcgaca ccgagaaaag cgcagcaaat taacgcaaag cccacgccgc tacagtgcta 60

gagcgagcga gcctcttgcc tgccgctacg agccaacgac tcgaacgcat aactccaat 120

ggcagcgacg gtgatggcct ccatgagccc cctcgctcc gccacccccg gcgcgcgctc 180

cgctttccct gtacggctgc tgctccaggc atctgcgctc gcgccgcgcc ggcgcgcctt 240

ggccgtgacc gtgagggccc agagcgacga cgccgaggcc gagccaaaag 290

<210> 52602

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H11

<400> 52602

accgacggat gcgttcggga gtacggctta accatggata acttgattc ccttatcatg 60

aacgtgttcg tgggcgggggt atctaccata gatctggtgc tagagtacgt catggcctag 120
ctcatgaacc acaggctcgt gatgaagaag ctgcacgctg aggtacagac gtaccgagcg 180
tagaataagc tggacatgat caggaggagac tacctgagca gcctgtcgta cctaaactcg 240
ttcatgaagt atgcgctgct gctgcaccga tctgtgaaca tgctgatgcc gtactactat 300
accgatgact gcctgatcga cagtgaaaac atccctttca tcaactcgcgt tctcgtgaa 359

<210> 52603
<211> 152
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H12

<400> 52603

cacctcttct ctaaaatcaa cttacttttt caacccaaca acccagttca aggcattgctt 60
ccatcccaca tatgacaatc aaccatcttc cataatctaa ataatcaatc acatacacat 120
cattaaacag caccttccaa ccatacagac ac 152

<210> 52604
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H2

<400> 52604

aattcccggg ctcgaggacg cgtccgagga caaggagggc atccctcctg accagtagcg 60
gcttatcttc gccggcaagc agctgcagga cggacgcaca cttgctgact acaacatcca 120
gaaggagtca accctccact tgggtgctgcg ccttagggga ggcattgcaga tctttgtcaa 180
gaccttgact ggcaagacaa tcacccttga ggtggagtcc tcagacacca ttgacaatgt 240
caaggcaaag atccaggaca aggatggcat gccacctgac cagcaacgtc tgatatttgc 300
cggcaagcag ttggaggatg ggaggaccct tgctgactac aacat 345

<210> 52605
<211> 293
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-053-Q1-K1-H3

<400> 52605

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cccacgcgctc cgctaaattc aggttagcaa ataagatctc gcaagcaagg aagagatggg    60
ggctttcaag aagcatgtaa ccagccttgc tgcgctggac ttcttggtat gcctgaagtc    120
ggacgtgttc gtcatgacct acggcggcaa tttcgccaag ctgatcattg gctaccgtcg    180
ctaccatggg ccgcacatgc tcaagtcaat caagccggac aagggtctca tgtccaagtt    240
cttcggtgac cettacatgc cgtgngcgac gttcgtggag gacgtggtga taa          293
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<210> 52606
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H4

<400> 52606

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gggggtgctg ctctccgacc ccgagctccg aaggccgcag catcaggcgc ggccccctc    60
gggtgtgacc gagatggcgc tgccgaatca ggggaccggt gattacccca gcttcaagct    120
cgtcatcgtc ggcgatggtg gaactggtaa aactacattt gtgaagaggc atctcactgg    180
agaggttggg                                     190
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<210> 52607
<211> 147
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-053-Q1-K1-H6

<400> 52607

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ttaccccatc ttcaatctct tcatcatcat ctatacttaa actactaaaa ctacattttt    60
naatactcat ctactccac acttttataa taaatattaa ccaaccattc tttcataaca    120
tcatcccatc aatttcacca ctaacta                                     147
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<210> 52608
<211> 291
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H9

<400> 52608

cttggtgcaa ccgtcgttac gtatccccctt ctagttgtta aggcaagact tcaggcaaag 60
gacatgatta acgatgacaa gaggcacgcg tacaaggta cacttgatgc gttcaciaag 120
atggtacgat atgaggtctt gtcagggatg tacaaggaa tgggcacaaa aattgtgcaa 180
agtgtttttg cttctgcttt gctttttatg attaaggaag aactggtgaa aggtgctcga 240
ctattggtaa ctggtaacac tagtctggtt aagaaactac catcaaagtc a 291

<210> 52609

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D8

<400> 52609

acaaaaaaaa aaaaaaaaaac gaaaaaatta aagaataaaa aaaaaaacac aaaaacaaaa 60
aaaaaaaaaa aaaaacaaaa aaaaacacaa aaaaaaaaaa aaaaaaaac aaaaacaaaa 120
aaaacaaaca aaaaaaaaaa caaaaaacaa aaaaaaacaa aaactaacaa aaaaaaaaaa 180
acaaacacca aacaaaaaca taaaacaaca aacaaaaaaa aaaaaaccaa aaaaaaaaca 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaca aaaaaaacaa aaaaaaacaa 300
aaacaaacaa caccaaaaaa aaaaaaaaaa accaacaaaa aaaaataaaa caaaaaaaa 360
aaaaacaaaa aaaacaaaca ccaacaataa aaaccacaaa aaaaaaacaa aaaacaaaaa 420
aaaaaacac aaaaaa 435

<210> 52610

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D9

<400> 52610

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aaaaaaaaa aaaaaaaaag aaaagaataa aaaaaaaaaa aaaaaaaaca aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggtc actccctttt 180
 aaaatatcca aacttaccta cccttacatc caacttaaaa cttttt 226

<210> 52611
 <211> 255
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E1

<400> 52611

aaaaaaaaa aaaaaaaaaa aaaaaaaat taaaaaaaaa aaaaaaggaa aaaaaataaa 60
 agaaggcttt tgcgttcttg cggcgtccat gctaacgtac tcgtgcttgc aacgtgatac 120
 ctaatttata gtgacagcta aatgcatttc actggccgga cttgtacaac gttgggggttg 180
 ccaaaaccat ggggttacca aactaaatcg ctttggacaa cttccgtctt tggcaagatg 240
 ccgtaataga tagga 255

<210> 52612
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E10

<400> 52612

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 catcgcaaca atgctcatcc ctggtgcaaa ggagttcaga gtgaccaca tggaaatgat 120
 caaaggaatc aaaggatcatg gctaccatga tgaattggtc attcctatta ttgagaatac 180
 cccttatgag tatgagctca ctgactccct aagtgaggcg attgcagcat acccaaaggc 240
 aactgctgtg cttgtaagga accacggaat atatgtatgg ggggagtctt ggatcaatgc 300
 caagacacag gctgaatgct accattatct tttagatgct tgcataagc tctatcagct 360
 aggtattgat tggacaaccc ctgaacatgg ttcaataaac 400

<210> 52613
 <211> 384
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E3

<400> 52613

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gacgagggct cagttgttgc gtttggatgg atggggtttg ggagtctagg gtttcttgac 120

cgaggaacat cagacaaagt aatgaggccc cgcgttcttg agagcctgca ggatcactac 180

gtctcccaaa taagcaccgg actggatcac actgtcgcag tgacaaataa gggcattgaa 240

ttcgggttcg gggacaacga ggcaccccaa ctggggcagg agtacattcg tgggtgctta 300

aaacctaccg ggataatgtt ccaaaggagt ttcgaagact taccaattgc ggggcctatg 360

ggttgaccta aaggccaaaa ggcc 384

<210> 52614

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E4

<400> 52614

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tactgtctg ttgctcaaaa catgcgtgag ctttatagat tggttctagt cgatacacca 120

ctggcccctt acttctcaga gtgcattaca tctgaggatt tggatgacat gaatattgag 180

attatgagga aactctctta caaagcatat cttgaggact tctacaaatt ttgccagaaa 240

ctaggtggtg caacagctga gatcatgtgt gatctccttt catttgaagc tgacagaaga 300

gctgttaaca ttacaataaa tagtattggt actgagttga caagagatga cgcaggaag 360

ctgtactcca actttgggta atggaatcca tatggccacg aagaattggc cgttggtgaa 420

gatgttgacc agtttcgt 438

<210> 52615

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E5

<400> 52615

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ctaattcacac ttccacatata aaaaatcatt atacaaacat acaacacatc cacaatcata 120

aacatacaat actaaaacca ccaaa 145

<210> 52616

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E7

<400> 52616

aaaaaaaaa aaaacaaaaa tataacaaaa aaataaaaac acaaaaaaac tcacgtacaa 60

tttcaaaggt gtggcgcccc accacataaa ctataacaaa aaaaccactc tagaccaaag 120

aacaccaaac aaaataatca acccccaaac tcacgacaac caccacaatc actacaactc 180

ccaaataaac accgaactct atcacactta cacacagaca aacaaacgca ttccattcac 240

caacacacac aaccaaccag cacaactaat ccaataccac aaccaacacc actcaaaacc 300

taccgagata accatccaaa aaacaatcca atacatacca 340

<210> 52617

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E8

<400> 52617

caaacatcct aatacaccaa aatcaccccta ccaatcatag ttcccaacat cttataattt 60

caatcacatt aatattgaaa atattataaa caacatctac aaaacaaatc tttaagacca 120

ttacaaatac taccacaaac tatcatcac aacaacacac atcaaattct aactactttc 180

aaattaaact cacataataa ctcttaacaa tacaataaat aacatagaca ccaaaatcac 240

a 241

<210> 52618

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-E9

<400> 52618

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gtgcggttg aattaccact tgctctcaac cgtaccactt acaaggggtcg cctctcaagc 120
ctgatatcca tcgcacaagc cctgctgggt gcagcccggt ctaatcagaa acccctgctc 180
tctcttcgcg ttgaggggtcc agtttccttg tcttcgactc cttccatgtc tcccaaggac 240
aagctcaagc tcaaacgggt ggccccaggc caagtggagc tctctcaca ggcgggggca 300
atccctgcta tcaccgaaga cgaggatgaa ccacantaac cctgattgtg gcctcttttg 360
gctctgaat 369

<210> 52619

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F1

<400> 52619

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tactcgtgct tggcgaggcc tatgagcagc tgccatctac attgcacacg gcggtgtgat 120
gctcactctg ggggtgaagat cacttacaac aaatcgtatg ggaacccgca caccgtcaag 180
cctttgctct acaagccggt caccggccct ctgtcttgct gttaaacaac acatcttgct 240
ggaacgcata cgatagaaca tacatggatg aaaatatgta ttcgtgcca gactccatat 300
gacaatatgt aagtaaacac tgtagatgt aaatcaaaaa ttcacttgct aatggaagct 360
ggcatatgt ctgtcaacca atccttgta ggaaccagaa ttggcggcct aatggtggtt 420
attttaatgg ttttctt 437

<210> 52620

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-F3

<400> 52620

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gggtattgat ttcattggccg tgattcccc tctcccagtc aaagccatcc aagccgcaat 120
tacttcaggg acaggggtgtt cactgggggt agaaggattc tggttcttatt gcacgacaca 180
tgacaacata tccaagtagt ccttgattga tttagcagca gggagtaagc gtcttgctaa 240
aagtggctcc acangtgaac ttagcgatcg tcttgctaaa agtgggtgta aaggtgatcg 300
ctttgaagga aactcaggtt caggaaggac acatgaatat ccgagaaaaa actccaaaga 360
atctttccaa aacctgatgg tggccttcta ccttaaccac ctttggaagt cttaggtggg 420
taattttg 428

<210> 52621

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F4

<400> 52621

gtgcaaactt ggcttgaatg ataggggttct tttggaggct caaggcagag caactaaggg 60
caaagcgata gacctgatg atatcaaatt tcatcagtgt gtacgtttgg ctagatttga 120
gaatgataga actatatcgt tcatacctcc tgatggatct tttgatctaa tgacatacag 180
gcttagcact caggtaaaac ctcttatctg ggtcgaagca cagattgaga aacattctag 240
aagccgtata gaactcatgg tgaaggcaag gagtcagttt aaagaaagaa gcacagcaac 300
gaatgttgaa attgaagtgc ctgttccttc agatgccaca aacccaaata taagaacttc 360
aatgggggtct gctgcatatg ctcttgagag agatgcaatg gtttggaata taa 413

<210> 52622

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D7

<400> 52622

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aggcctgaac gccatcaciaa acttcgagat cagccgggtac aacgtggaga ccataatgag 120
cagcaacctt ccagtcacga gcatgtcgtc atcagcggcg gcggctgcgg attggccgga 180
gcagcaagga gctggagacc cctccgtccg actcgttga cggcagaagc ggcatgccag 240
tcttctaaac cagcacggaa ccgtcactgt taattcc 277

<210> 52623
<211> 288
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-053-Q1-K1-C10

<400> 52623

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agaatgcatt atcgaatctc aatggagcta tgagttctga aacccttttt tcttcccctt 120
gctgctcgcg gcatagcatt tggaaattga agtacaattt gtctttcagg atatactgaa 180
ttgatttatc attgtcctgc angacttga tgatagatcc gggttacgat accagcatca 240
aagccgncta gaagcaatac tgaactttca cttgagatgt gaagtagt 288

<210> 52624
<211> 483
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C11

<400> 52624

accggacttg aatacccggg ccagaccgac gcgtcagatt tgctcttaac gaggcacaga 60
aatcccttct ggccgatcac aaatccctag aagctaggct gaggcacgcc gagaacaggg 120
cgatgatgct ggaggagatg gtggataaac tagagtcgca atgcaaggcg ctgtctgaga 180
cttcagaagt tctgaagctg caggccggag ctagcatggc ctctttgttc tgctcgatcc 240
agtttgtgct gctgtgcata gccattggga ccctcctcgt tcgcttcctg tcctcttctc 300
cggagattgt acctacttga ggtagagaa ttatgccagt cagcctttat gtaggcgttg 360
ttgaacggtt ggttactgga acttattagg gcatcaatcg ccttacagat tttcggtttt 420

tgtaccatca actcgatttt gctagtaatt tctttatgaa tacgagttta ctgcacttct 480
 ggg 483

<210> 52625
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C2

<400> 52625

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 caggagcagc ttttcaaaag gtctgcgcaa gctacgccga gaaactggtc cgatggcctg 120
 gtctgcacgt gctcatggcc ggctctgctc cggtgacctc tcgtgggtcg cagcagcacc 180
 gtgcacttac ggccctgag c 201

<210> 52626
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-C3

<400> 52626

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 gtgagctgct gcgggagaat aagcggatgc tggacaagtc catccgggag attgagaggg 120
 agaggcaggg cctgcaggcc caggagaaga agctcatcaa cgagatcaag aaggtggcca 180
 agcagggtca gatgggagct gtaaaaatta tggcaaagga tcttatccgc acaagacacc 240
 aaatcacana attctatgca ctcaagtccc agctacaagg tgtatctcta cgtattcaga 300
 ctctgaaatc aacacaggcc atgggtgaag ccatgaaggg tgtgacaaaa gccatggggc 360
 agatgaaccg ccggatgaat ctgcctgcct tgcaaaaaat catgcggaag ttggagatgc 420
 aa 422

<210> 52627
 <211> 271
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C5

<400> 52627

ctggacaagt ccatccggga gattgagagg gagaggcagg gcctgcaggc ccaggagaag 60
aagcttatca acgagatcaa gaaggtggcc aatcagggtc agatgggagc tgtaaaaatt 120
atggcaaagg atcttatccg cacaagacac caaatcacia aattctatgc actcaagtcc 180
catctacaat gtgtatctct acttattcag actctgaaat caacacaagc catgggttaa 240
tccatgaagg gtgtgacaaa atccatgggg c 271

<210> 52628

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C6

<400> 52628

aaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaacgaa 60
aaataaacaa taaaaaccca aacaaaaaaaa aaaaacaaaa aaaaaaaaaa acaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaacaacaaa aaaaaaaata aaaaacacac aac 233

<210> 52629

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-C7

<400> 52629

ctacaccctc cgtccgccgc caagtgcttt atcttgggca agaagaagac tcttgctgaa 60
cttctacggg agaataggcg gaccctggac aagtccatcc tggagattga gagggagagg 120
cagggcctgc aggcccagga gaagaagctc atcaacgaga tcaagaaggt ggccaatcag 180
ggtcagatgg gagctgtaaa aattatggca aaggatctta tacgcacaag acaccaaatc 240
acaaaattct atgcactcaa gtcccagcta caaggtgtat ctctacgtat tcagactctg 300

aatcaacac aagccatggg tgaagccatg aagggtgtga caaaagccat ggagcagatg 360
aaccgacaga tgaatctgcc tgccttgcac aatatcatgc gggagtttga gatgcaaaac 420
tagaaga 427

<210> 52630
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D1

<400> 52630

aaataacact gacgcagaag gaaggctaac acttgcctgat gctttgggtct atgcttgcag 60
ccaatgtgtt gaaaagatta ttgatttggc aacgctgacc ggcgcttgcg ttgtcgcact 120
cgggcctagc attgccggaa ttttcacgcc gagcgacgag cttgcccaagg ag 172

<210> 52631
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D10

<400> 52631

gcttctgtgc tgctgaagac gctgttgcta cctcgcccaa atctgttttc cactgctttg 60
gcggggagaa cgtggagagt gctcctctc ctatgaagaa ggactacaag ctggctaatac 120
ttctctgctg ggaggaggaa gcggatgcca tggaggagaa ggcggggagt cttgatgagt 180
aagacgggct tctggggctg atttgcttct gagttgttta ttttatatcg tgcgaatttc 240
gtggttgcg tttggttatt ctgtgaagca gccaaaccag gctattgtta tgaaaatttg 300
tcgtctgtaa gcatgtgaac ttccgatgtt gccacatgct ggatcagtct gaataagtaa 360
gtatgcagct ctaggtggtc agctgctct accacaatga gcatgaacgt atggagaaat 420
atctgtgaac ccattttgtt tatgaataag at 452

<210> 52632
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D12

<400> 52632

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ctacgagaag cttgctgttg atctgaagcc aggcaagtgc atattgtgtg ctgatggtac 120
catcactctt actgttcttc actgtgataa agaacaaggc ttggttcgct gccgctgtga 180
gaacactttc aagcttggcg agaggaagaa tgtaaatctt ccaggagtta ttgttgatct 240
ccccacactc acagacaagg acaaggagga catccttaaa tgggggtgttc caaacaagat 300
tgacatgatt gccttgtcat ttgttcggaa gggttcggat cttgtggagg ttaggaaggt 360
acttgggtgag catgccaaagt ccataatgct gatgtcaaag gttgagaatc aagagggagt 420
agctaacttt gatgatatcc ctggcaactc tgatgct 457

<210> 52633

<211> 270

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-D2

<400> 52633

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gcatggacgt gagcggagca tgcggttaagg cgaagaaggg cgcgggcggg cgcaaggccg 120
gcggggccgac gaagaagtcg gtgtcgcggt cctgcagggc cgggctgcag ttccccgtca 180
gccgcgtcgg gcggtacctc aaaaagggcc ggtacgcgca gcgtgtangc acgggtgccc 240
ccgtctacct cgccgncgtc ctggagtacc 270

<210> 52634

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D3

<400> 52634

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ggtggccggt aacaaggacc tctaccttgg gacgttcagc accgaggagg aagctgcaga 120

ggcctacgac atagcggcca tcaagttcag aggcctgaac gccgtcacia acttcgagat 180
cagccggtac aacgtggaga ccataatgag cagcaacctt ccagtcgca gcatgtcgtc 240
atcggcggcc gggcagcgg gtggccggag cagcaaggcg ctggagtccc ctgctgctgg 300
ctcgtttgac ggcagcagcg gcatgccagt cgtcgaagcc agcacggtac cgccgctggt 360
cattccggtg a 371

<210> 52635
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D4

<400> 52635

cggacgcgtg ggcggacgcy tggggcgaat ttcgtggtat taaaaaaaaa aaaaaaaaag 60
aaaaaatata aaaaaaaaaa aaaaaaaaac aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaatcaaca aaaacaaaaa aaaacaacaa aacaaaaaaa 180
cacaaaccaa cacacaata aactaaaca acatcagcaa caat 224

<210> 52636
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-D6

<400> 52636

cgcgtccggc ggcggcgatg acaacgcgct tcaagaagaa ccgcaagaag cgcggccacg 60
tgtccgccgg gcacggtcgc atcggaagc acaggaagca cccgggaggt cgcggtaacg 120
ccggtggcat gcaccaccac cgtatcctct tcgacaagta ccatccgggc tacttcggca 180
aggttggcat gcgttacttc cataagctcc gcaacaagtt ctactgcccc gcggtcaaca 240
tcgagcgctt ctggtcgatg gtgcccaccg acaaagcggc ggaggccggc ggcgacaagg 300
ccccgcagat cgacgtcacg cagttcggct acttcaaagt gctcgggaaa gggg 354

<210> 52637
<211> 362

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-C1

 <400> 52637

 ctgaaccatc ttatctctgc taccatgagt ggcgtgacat gctgtctgag gttcccgggg 60
 gagctcaact ctgatctgcg caagcttgcc gtgaacctca tccattccc tcgtctgcac 120
 ttcttcatgg tcggctttgc tccgctgacc tctcgtgggt cgcagcagta ccgtgccctc 180
 acggtccctg agctgaccca gcagatgtgg gatgccaaga acatgatgtg cgcggccgac 240
 ccccgccacg gccgctacct gacggcctcg gccatgttcc gcgggaagat gagcaccaag 300
 gaggtggacg agcagatgct caacgtccag aacaagaact cgtcctactt cgtggagtgg 360
 at 362

<210> 52638
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-H6

 <400> 52638

ggcaatttcg atctggactg gatcgctaca tttggatcgt ggggatgata tatgcgtggt 60
 accatccaac tgttgagaag tggttggaga agctggaaga aactgaaatg agaaccaaac 120
 tctatattaa gacctcaata gttacagtgt caatgatggc tggatatttg tggatgaat 180
 acatttataa gctggataag attacttaca acaagtngca ttcataatac tgctggatcc 240
 ccataactgt ctacatatgt ctacgcaact 270

<210> 52639
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-052-Q1-K1-H7

 <400> 52639

ggcgtaagca gccatgcagg tatcaaaagg tatcagcgtc accaatcttc atggagcgca 60

catgctccac gcttccgcaa tacgcgc

87

<210> 52640
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H8

<400> 52640

cccacgcgtc cgcgccaccc tcatcacgc cgtccgtcga ggtaagggtca gcatggggag 60
ggtcagtgtg ctcaacgatg cgctcaagtc catgtacaac gctgagaaga tcggcaagag 120
gcaggatcatg atcaggccgt cgtccaaggt catcatcaag ttcctgacgg tcatgcagcg 180
ccacggctac attggagagt tcatgtacgt tgatgaccac cgatcgggca agatcgtggt 240
cgaactcaac gggagggtga acaagtgcgg cgtcatcagc cctcgctttg atatcggcgt 300
gaaagaca 308

<210> 52641
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A1

<400> 52641

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gtgattcggg aactataggt ggcaccttcc gagcctttct gaaagagagt tttaatcaat 120
tgaagcagcg gattgaagag gcgatttgtg ctcaagctag cgtgcagcgc tgcagcgctg 180
ccgtggactt cctcagcaag gaccgtactt tcttgccgcc gaccatcaac agccccgagc 240
tccacgactg cttcgtgaac gtggccggcg agatggtcgg ctcgaggaac gtgagggaca 300
ggca 304

<210> 52642
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A12

<400> 52642

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gtcgggcaaa gccaggagat cgctcccacc tttccaaca gctacaacgg ttcattgcag 120

acagtccaca tgaaaatgga gctttgaggg atggccgggg aaaaagaaag aaagaaaacc 180

ccagtccgaa gctcgacgcc gtcgtccccc ctgtacatac ggagaagaga ggacacagct 240

cgcaccggaa gcagcgggct ctttggg 267

<210> 52643

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A3

<400> 52643

taaaaaaaa aaaaaaaaa aaaaaaaaa attaaaaaaaa aaaaaaaaa aaaaaaaaa 60

aagaaaaatt tacaacaac aaaaaaaaa cccaaaaaa aaacctaac aaacaaaaa 120

aaaacaaaa atactacacc tttctatact tcccaaacc t 161

<210> 52644

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-A4

<400> 52644

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aagcaggggc ccatgatgac ggcgctcaag gccgcgacgg ccgcgacctt cggcgggtcg 120

atgctggtgc tgtccgggct gatcctggcc ggcaccgtga tcgcgctcac ggtggccacc 180

cccgtgctgg tgatcttcag cccgggtgctg gtgccggccg ncatcgcgct ggcgctcatg 240

gcggccgngt tcgtcacctn cggcggcctc ggcgtcgctg cgctgtccgt gttctcctgg 300

at 302

<210> 52645

<211> 355

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-053-Q1-K1-A6

<400> 52645

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ggtcnancgg atgcgggatgc catcccgttc agctacagcc agctcgacac catcctgagg 120
atgttttcgga tccctcgggg gtccaagaag gcagagcaag tcgccgccac gtcctggaca 180
tgcgaggctg agtccccaga ggctcatgcc tgcgccacct ccgagcaggg gccggccgac 240
ttcgctgcct tctcgctcgg ggtcagggcc agcaagctgg tcgcgctcgt caccaccgtc 300
catgggggga aagacgccac tagatacgtg gtggcgccca acggcatcac acgca 355

<210> 52646
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-A7

<400> 52646

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gtcctataaa tgtcaccgtt cacatattga ttggattcc attttggtgt tacacagatc 120
cgaattgcaa cctgtattgc atttattggg agctcgggtg ggaaaatgtg catattctgg 180
aggaagcaaa attatttctt gccaaattga gattcagtag aggtgcttat tctgttcttt 240
gcagagagat gtatgaatgc aagatctgta cttccatggc aaatgaactg tgcaatatga 300
gatggtacga gaatgttgca catcatgaac gaaagtaaag agctttatat agcatacagc 360

<210> 52647
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B1

<400> 52647

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tgccctagcc cagatgggtc gagcgcggtg gcgagcgca aggggggaga ggcgaggtgg 120
 ccggagccga gcgtgaggca agcaacgcgg accgtgagca cgggtgcggag tcggacagcg 180
 aggaggagag gagggccgc aaggcaaaga ccttcggcaa gtcgcggtcg ccggagcgca 240
 gcagcttcaa gggagctgcc gccttcaaga agccaaagtt caggtgaatg ctgccttcgg 300
 caattcgctc gtgccaaagt gc 322

<210> 52648
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B10

<400> 52648

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 cgagcgtcgc ccgcggcagg agctggctac ccctcgacca ggtctgggag cggcgccgcc 120
 gcgcccgcac gagacggcgg agctggacgc ggaggcggcg ctgggcgggg agtcggcgga 180
 ggagcgcaac cgcttctctg tgctgctggc gtacgaggcg ctcaacgccc gcgacgcgcg 240
 ccgggcgcag gagctgctgg cgccggacct cgagtgggtg ttccatggcc ctcccgtgcg 300
 ccagcacatg atgc 314

<210> 52649
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-B11

<400> 52649

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 gaacactgcg gacaccacta tctacagcat cgagaagagt cttggagagt acagggacaa 120
 gatcccggca gaggttgcac ctgagatcga ggcagccatc gctgacctgc gacaggagat 180
 ggcctcggat gacatcgaga agatcaaggc caagcttgag gctgccaaca aggctgtctc 240
 gaagattggt cagcacatgt caggtgggtg ctctggcgac tcacagtcgg gatctggacc 300
 tcagggtggc ggtgaccagg cgccggaagc agagtatgaa gaggttaaaa agtgaagctg 360

cnggaagttg aggcgaaatt gtagtgacct gtttagaagt agctactctt ttttggaac 420
acagatagtc agatgagatg 440

<210> 52650
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B2

<400> 52650

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cggctcgact gtttatgttg acaatgggct caatacaatg gggcttgcaa ttgacagccc 120
taccataacg tcatagatgt ggttggtgta gatagacgac ctttctgct gcattgcggt 180
atcatccttg aataaagatc atagttagtt ataaatatga gaggtaaggg caggaaaggg 240
ggaaaattat gaactggtct tttgcgctat ctttgctgga gaggaacatt agagcgattt 300
ccaaaatgat gggatgctaa tatgtgattt catatgattc aaaagcagta caataacttc 360
ctagaataag ctgcataact atacttatgg ttaaaaaaaaa accatatat 409

<210> 52651
<211> 59
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B3

<400> 52651

aacaaacaaa acagagaaac acagacaaga ttattcataa aaaaataaga aaaatgaaa 59

<210> 52652
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B7

<400> 52652

aaaaaaaaa aaaaaaacg aaaaatttaa aaaaaaaaaa aaccaaccc aaaataaaaa 60
aattaaaaa aaaaaaaaaa ctaaaacaac aaatacaaa aataaaa 107

<210> 52653
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F7

<400> 52653

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gtggcagaag agcttatctt tggggatact gaagtgacat ccggtgcgtc gtcagatttc 120
caagcagcga ccgcaatggc gagagcaatg gttactaaat atggcatgag caaagcaagt 180
cgccttgtct cttataacta cgaggacgat ggaaagagca tgagctcaga aacgagactt 240
gcgatcgagc aggaggtgaa gaacttcttg gagaatgcat acagcaatgc gaagaccatt 300
cttacaaaac acaacaaaga gctccatgct ctagccaacg cacttcttga gcatgagacc 360
cttacaggag cc 372

<210> 52654
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G1

<400> 52654

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aacatgtctg ccttgtctct tataactacc aggaccattg aaagagcatt agctcataaa 120
ccagacttgc tatctagcat gatgtgaaga acttttttga gaatgcatac agcaatttcta 180
ataccagttt ttcaaaacac aacataaagc tccatgcttt atcaaccac tttttttgca 240
tgagaacctc tcatga 256

<210> 52655
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G10

<400> 52655

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 gaccttgcaa cttgataagg aagcagacaa ggaattcatg tccagcttgg cttcccttct 120
 taagactatt gaaagggcga tccaagttca tgaagatttc tcaagtgtcg tgaaccctgc 180
 agagttatta gaatgtcact tcacaagggt gaaagctctt gagaatgaat atgggtcttg 240
 tgaaattgtt taacctggga cagaaatagt tcaaagagct ttcaccaa atccagtc 300
 cctacatgaa gcatacaaag gggaaattgt tgggctggta atatccaca atgaagcttc 360
 a 361

<210> 52656
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G11

<400> 52656

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 gttagcacca atcaggagcc atccattgaa acgaccata tacatcagag atagacgtcc 120
 tgctatgcca atgctagata gagctaggcg ttacctcct tcaggagat cttatgacag 180
 gaggcccca gctccagttt acctgaagaa aagtccaagg agagaatacg gtaggcgtga 240
 tgaacttcct cctccaagga gcatagctat gattgattac agtcctagag ttccagttga 300
 tagacgtcct tctttgaggg atgattat 328

<210> 52657
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G12

<400> 52657

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 cctggaactc ttgcaccaac tggctctttt gttggaggta cgaagtacat ggtgatccaa 120
 ggtgaacctg gaggttgtcat ccgaggaaag aagggcactg gaggcattac tatcaagaaa 180
 actggcatgt gcttgattat cggtatctat gatgagccaa tgacttcagg gcaatgcaat 240

atggtggtgg agaagctcgg cgattacctg atcgaacaag gcttctaagt ttgtcataat 300
gctattttgg tcattgggca ctttaagttt caccttattt ggttctgtaa tatgtgggct 360
tgtgcatgtg cttggcgtat tggatgcagt gaataattta tcttcgcgtt gggttggtga 420
caatgttggg aaccgattt 439

<210> 52658
<211> 402
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-G2

<400> 52658

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tgtactggat ttgcagtcaa tgctactggg atggccaacc aactacaact aggaaatagg 120
ttgccctgng caaactattc aactaaacta atcgcgactc accactagtc ggctagttgt 180
tgctcaggtg actagacttg atttatgatt tggaaacact agtagctgct tatcttttat 240
ttacgctagt tctctcaaaa agaccaccaa atgttattat acacattcgt agcaatcgta 300
taaggttata ttatgctaca gtgaacgatg tgccaaaaaa tggataagcg tgttcattta 360
aattctaaga gagccatttt tatgtcctgc tggatacaac aa 402

<210> 52659
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G5

<400> 52659

gcgcagcaaa cgccattggt tgagagcttg ttggaatatg ttcagacttc tagatgggtca 60
tcttattatc agttgctaga ctgcaattgg gcttatgttt gttcactcaa tttttagta 120
aacagaattt ggtataccaa ggggatctat ataacaatgt atgccataaa ttttctgtct 180
accatttctc atgaaatgct taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa aaaaaaattt aaaaaaaaat tttttaaaat ttatttaata ttaaatttga 300

ttattttatat ttattataat taaatttaa

329

<210> 52660
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G6

<400> 52660

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gtgtcttgtt agttattagc tctatctcgc cgccctgcag ctgctgatcg agtgagggaa 180
ttcagcagca gcagcagcag gtagcatagc atagatatga cggcggcgga ggtggaggcc 240
gccaaaggaca tcgccgagga gaaggccgtc gtgccgttgc caccgtcgcc cgccaagccg 300
gccgacgacg actccaaggc catcgtcgtc cttgtcgtca aggacgtgc tgctgggaaa 360
ccttctacag ctattatt 378

<210> 52661
<211> 274
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G8

<400> 52661

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gtgcgatccc aagccgctgg tgggtgtgca tccggcgctc atggacggag cgaaacccgc 180
ggcagcatgc tgctccaccc tgcgtgcgca agaggcatgc ttgtgcgtgt acgccaaga 240
ccccaagttt gcaaaatata tcaacaaccc caac 274

<210> 52662
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H1

<400> 52662

cccacgccac ccagaaaaaa aaaaaacaaa aacaaaaatt caattaaaaa aacaaaacaa 60
aaaacaacac gaccgatt 78

<210> 52663

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H10

<400> 52663

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tacacatttt agttcgtgca aatctaaagg aagacccaaa ggtgaccgga tctgcacatg 180
ctctttttgt caaaggggtt tacataaaag aacctgggaa attaaatctg actccaagtt 240
gcaatcatag tgtcattact atcgatggaa atactgatat tgagttgttc tggaatgcta 300
aagatttact cagagtcagt cgtgttgaca caaatgagaa caatggtgtt ctt 353

<210> 52664

<211> 277

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-H11

<400> 52664

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tactgaccga ctccgagccg gccgtgtccg tgcagctcgg cgaccacggc cacctcgact 180
acttcacac caaccaggcg ctcttcgnc ccacgtcggt cgcgcccaat gacgaggtgt 240
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<210> 52665

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H12

<400> 52665

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agaaggatgt gccgaggccg gtgacatact cctactcttt ctttcacctc atcttctccc 180
tggtccagcat gtactcggca atgctcttga ctggctggtc aacttcgggtt ggtgagagcg 240
gaaagcttgt ggatgttggg tggccatctg tctgggtcag gattgcaacc cagtgggcca 300
cagcaggtct gttcatatgg tcgcttggtg caccctgtgt ctttcccgac agggaattct 360
aagttcaacc acggtgaagc tggagcatca aacgtgtcta ctgtggtagc taatatatcc 420
tatcaagtat 430

<210> 52666

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D4

<400> 52666

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tcagtatttt ggtgaacctt tcttcttctt aattcgtgat ggtgaagctt tgtcggatat 180
gaaagtacgg attcagaaga gacttcaagt tcctgatgag cagtttctaa agtggaaatt 240
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attccataaa cagagacctt gttatggagg ttgggaacaa caccttggat tggagcatac 360
agtcaccaac caaaaaaggc cctacttagg caacaaccag aaccgccatt cttttgagaa 420
gcctgtgagg attta 435

<210> 52667

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-D7

<400> 52667

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cccagcaatg tatgttgcta tccaggctgt tctttcgttg tacgctagtg ggcgaacaac 180
tggtattgtg atggattccg gtgatggtgt gagccacacg gttccaatct atgaaggata 240
cacacttntc catgctattc tccgtttgga tcttgccggg cgtgacctca ccgaccacct 300
aatgaagatc ctcacagaga gaggggtactc ccttactacg agcgc 345

<210> 52668

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D8

<400> 52668

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gcttgctaag tttatcgtga acaaacttga tttgacggaa aaagatattc ctgctttggc 120
tgatatagtt ggcgacgagg acaaggctaa agaaattggt gaagcagcaa aggcttcaat 180
gggccaggat ctgtcaccag ttgatttgat caatgtccag caatttgccc aaagggttat 240
gaatctctct gagtatcgca aaaaccttta tgagtatctt gtgactaaga tgaatgatat 300
tgcaccaaac ctgacatcga tgattggtga agtacttgga gctcgtctaa tctctcatgc 360
tggcagtcct tcaaaccttg ctaagtgtgc aaccttcacc cttcaa 406

<210> 52669

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E10

<400> 52669

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tttggcttct tttgcaactg aggattatga tgctatggcc tctgccctct ctgaaatggg 180
 tgctacaggg aatgatataa atactaatga atttgcaaag gacctgcaa agatattctc 240
 atcgattcag gacctggata ctgaaatcat agtggcaaca gcaaggaccc cttattcttc 300
 aacaggatct gcttatg 317

<210> 52670
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E11

<400> 52670

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 atatcgctat gatcggcggg ccaaccgta caacataggg atctcgaaca acttcattga 180
 gatattctgc accgcagtcc ctacttccaa gaacaacttc agagccaggg tcccagtaga 240
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 acccgcttgg ga 312

<210> 52671
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-E3

<400> 52671

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 caagaagggc tacatccgc tcaccaccta cctccgcacc tacaagatcg gcgattacgt 180
 cgatgtcaag gtgaacggcg cgtccacaa ggggatgccg cacaagttct accacggccg 240
 caccggtcgc gtctggaacg tcaccaagcg cgccatcggc gtcgaggtca acaagcaagt 300
 caatgggcgc atcatcaaga agcgtatcca tgtccgtgtg gagcatgtgc agccgtncg 360
 ctgcacagaa gatttccgcc tgaggaaggc gaagaatgac cagcttgagg cggatgccaa 420

a

421

<210> 52672
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-E4

<400> 52672

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tagtactgta tcaacaccta ctgcaaaagg aggcccgtaa ctcccaagtt atgccccact 180
tggatatgga ctggtgggag cttataatcc acgtggaaag ggattggcag atgcttataa 240
taaccccctt ggaaatggac tggcaggtgc ttatggtgtg ctttccgctc gtgctgcaca 300
gccaatggtg tatgctccag gtgctcctnc cggctcaaca atgatcccaa tggctcctacc 360
agatggccgt cttgtatacg taccacanng ccgcgngcag cagcctgtgc atgc 414

<210> 52673
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E5

<400> 52673

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gccggggtgc tgcgggtgga ggtggagccc tccggcgggg acttctggaa gcttgacccc 120
attatcgacc tcatcaatcg cggcgccgctc ggggtgatcc ctactgacac cgtctactcc 180
gtcgtctgtg acctgagtaa caatgaatcg attgagcgcc ttgcgagact gaaaggcatt 240
ggagactcca agcctctcag catcctgtgt cgctcattac gtgacatcga tacctacaca 300
ac 302

<210> 52674
<211> 400
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-052-Q1-K1-E6

<400> 52674

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tatcaggatc tcctatctgg cgacgagctc ctgtcggatt cattcaccta caaggagctc 120

gagaacggcg tcctgtggga ggtcgaggga aagtgggtca cccaagggtcc tgttgatgtg 180

gacattggtg ccaatccatc cgccgagggt ggtgaggacg aaagcgttga tgacacagct 240

gtgaagggtg atgatattgt tgacacattc cgtctacagg agcaacctnc ttttgacaag 300

aaatcatttg tgtcttacat caaaaaatgc atcaagaatc tctctgctgt gttggaacca 360

gaagaagctg atgagttcaa aagggtgtcg aggggtgcaac 400

<210> 52675

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E7

<400> 52675

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cgatgagaag gtatctatcg catgtgacac aggatgcaat gccgcgatct cccgtctcaa 180

atgcttcctg atggcctatt ctgaaggga agtggttggtc agcagcaact gcgaaacgcc 240

gaccagggtg ggctgcgtgt ttcgtcacia acaagatgca acccttatcg ccggcgacgt 300

tggcaacaaa aagggatatt gatggcagac gtgtatttct tggttgaata atatatactg 360

ctagaatt 368

<210> 52676

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-E8

<400> 52676

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 tgctgtattc gtccgaatcc ttgcgcatac tggcacggca gaccaactac ggctcatcga 240
 ggaggacaag cagaatatgc cttttccagt ccaaggccct gcttgcaact tctcagggca 300
 tctgattgga tggcacacgt 320

<210> 52677
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F10

<400> 52677
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 tgttctcca aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa aaaataaaaa 120
 aaaaaaaaaa aaacaaaaac acataaacia cataaaaaaa aaaaaaaata aa 172

<210> 52678
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-F2

<400> 52678
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 ggaggcaagg cccccgcaa gcagctcgcc accaaggcgg cgaggaagtc ggcgccgacg 180
 accggcgggc tgaagaagcc ccacaggtac aggcccgaa ccgtggcgct gcgcgagatc 240
 cgcaagtacc agaagagcac ggagctgctg atccgcaagc tgcccttcca gcgcctggtg 300
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 c 361

<210> 52679
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-D3

<400> 52679

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cttatgtgtg agatgtgag 439
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<210> 52680
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-F3

<400> 52680

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cagccagcta gctactgctt actctcaaca gcaacaattt ctccatttta accaattggc 180
cgcaactgaac ccctctgctt atttccagca gcaaatacta ctaccatttg gccagctagc 240
tacaacaagc cccgcttctt ttttgacaca acaacaattg ctccggttct accagcagtt 300
tgtggctaac cccgcaactc tcttacaact gcaacagttg ctgccctttg tccaacttgc 360
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<210> 52681
<211> 419

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-F4

<400> 52681

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gggcattgga cactggagga acgttgtgtt ggtggtaact gaggtttgtg cttgtgtgta   60
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atctctgcct tgtataccag tctctctgga tgagagcttc ccgaggcttc ccgatgcaca  180
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tgctcctatc cgtgggtctgt ttcactccaa tactggatct gttggtcctt tgtgctcacc  300
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caattctcaa gtaccaagca ctgcangttc ctcaacgctn gaatatgggt cacaatatg   419
  
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<210> 52682
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-B3

<400> 52682

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gaagctgaag aagaggggct atgaggtgct gttcatgggt gatgccattg acgagtattc  180
tattggacag ctgaaggagt ttgagggcaa gaagctcgtc tctgccacca aggagggcct  240
gaagctggac gagagtgagg atgagaagaa gcgcaaggag gagctcaagg agaagtttga  300
gggcctctgc aaggtcatca aggaagtgct gggcgacaag gtggaaaagg tgggtggtctc  360
cgaccgcgtt gtggactccc cct                                           383
  
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<210> 52683
 <211> 300
 <212> DNA
 <213> Zea mays
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<400> 52683

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caggccctcc gccatcgccg accagccgcg cgtcgaggtc ggcggaccgg acatgcgcac 180
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<210> 52684

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B7

<400> 52684

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aagctttttc actgacctcc ttgtcgtcgg tgagaaccgc caaacatttg atctagaagg 240
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gataatat 308

<210> 52685

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B8

<400> 52685

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ccgtctccta caggtaactc cctagcgtcc acgacctcgc gtcggaatcg gacgtgctcg 180
tcgtcgcgtg cgcgctgacc agggagacgc gccacatcgt gaacaaggac gtgctggcgg 240
cgctcggaag gacggggtcg tggtaacat 269

<210> 52686
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C12

<400> 52686

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ccgaggcctt cttccctcgc ctccccagct tcagcaggca gatcagatcc attcaaccac 120
gaacaggaaa gaaagtaaga agcctcgagg gct 153

<210> 52687
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-C2

<400> 52687

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acagtggaag caccatgagg tcaaggtgaa ggactccaag acccttctct ttggtgagaa 180
ggaggttgct gtgtttggct gcaggaacct tgaggagatc ccatgggggt cggttggcgc 240
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gaaaggtggt gccagaagg ttgtcatttc tgctcctagc aaggatgccc ccatgttcgt 360
tgntggtgtc aacgagaagg agtacaagtc tgacatcaac atttgctcta atgc 414

<210> 52688
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C4

<400> 52688

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aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 acaaaaaaaaa cataaaaaata aataa 205

<210> 52689
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C5

<400> 52689

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 ctcatatacc agagggagga aatggcagtg cagtatgctg ccggttgcac cgccacagca 180
 ttgggaacgc cagagatggt agcagcaagg cacaatgttc tccaaagagc gcctcaaagg 240
 ctggatcagc tactagatcc agggtcacca aatccaggga agacctgaaa gcttccgtga 300
 agaaagtggg actgccaagc gccgcgaact tcgctgtaca aacctaactc atcaggcatt 360
 cactcccata tgccattttt c 381

<210> 52690
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-C7

<400> 52690

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 caccgggacg caaggcgggc cgggtgactat ggtgtcggcg aggaagtgcg agtcgcagag 180
 cttccgcttc aagggaacct gctcgaggga cgccaactgc gcaaactgtc gcctgaccga 240
 aggtttcacc ggcggcgtgt gcaagggcct acgccaccgc tgcttctgca ccagggaactg 300
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<210> 52691
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-C8

<400> 52691

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<400> 52692

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tagtcaaagg caggttttgt gaaatacgcc caattgccag tatggcgtct tcacattatg 360
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<223> Clone ID: LIB3079-052-Q1-K1-D10

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ccgtgttggt gaagccagag atgagctcca caggatgctg aacgaggatg aactacgtga 180

tgctgtgctg cttggttttg ccaacaagca agatctttcc aatgccatga atgctgctga 240

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<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-D11

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ggcatagggg cctgtgcagg gtctgtgaaa acatccccat tgtcctctgc ggtaataagg 180

ttgatgtgaa gaacaggcag gtcaaagcca agcaggttac tttccacagg aagaagaatc 240

tgcagtacta tgaaatttct gccaaagagca actacaactt tgagaaacct ttctgtacc 300

ttgcaaggaa gctggctggt gatccgaacc ttactttgt tgaagcttgt gctcttaaac 360

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<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52695

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 tctgaacttt tgggttaaaa ctgacacatg ttgatactgt tcaaagctgt tgtatgttca 240
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 aaaaattgct agtagcattc agtatgtaac aaaaacatgt gagaacccat acgagaacca 360
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<210> 52696

<211> 331

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<223> Clone ID: LIB3079-051-Q1-K1-H6

<400> 52696

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 acgtactgca tgaacaaaga gtgcaagaag cacacactcc acaagggtgac tcagtataag 180
 aagggcatgg atagcctgtc tgcccaggga aagcgccgtt atgaccgcaa gcaggcagga 240
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<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-H7

<400> 52697

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 aggtatttct tccagcagtt gatctgtgga gtgagctatt gccattacat gcaaatatgt 180
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-A1

<400> 52698

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<223> unsure at all n locations

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<400> 52699

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<210> 52700
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<223> Clone ID: LIB3079-052-Q1-K1-A11

<400> 52700

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aatcaataga agccgataat tctttggact atgcggcaaa tttctcacac atgcttggtt 180

ttgacgaccc aaaaatgctg gagctgatgc ggctctatgt aacaattcac actgatcatg 240

aaggcgggaa tgtcagtgtc catactggtc atctggttgg gagtgtctctg tcagatcctt 300

atctttcttt cgcaacggct ctaaatgggc tagctgggac actgcatggc cttgcaaadc 360

aagaagtgtc tttatggatc aaatctgtaa ttgaggaaac tgggagtggg gttaccacag 420

atcaactcaa agactatg 438

<210> 52701

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52701

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tgatgaccaa agtgactact atgaaatgga aggaaacagt tggctctctt caaaggagag 180

gtcagtcctg aagcagcagc aagaggaagc tgaggaagca gctaaaatcc aaaagggtaa 240

agtgattgtt acatttgatt tgggtgggccc taagggtgatt ttgaacaagg atggaagtac 300

tgaggtggaa acagagcacc cgatcatgcy accgccggaa gagaaggacc agagccaccg 360

catacagncc aacccacaaa tcagagagca acctgtgttc gtcgaaacaa gtccagtcaa 420

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<210> 52702

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52702

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ctcggagggc tcaagtgcta cgagaacccc aagcacaagg tcaccgctgt ccccgccgac 180

gaagaagaga tctgcggtgc cactttcaag gtggtggaag gctctactgt cctgacggcg 240

ctgcactgat cggatcatcag ctggcgagg cgatgcgatg atgatgcaga actttgtaca 300

tgcgttggtg gatggtggtg gaacataatg gctgncaaca agtcatgctc atgcaaaccg 360

atgaatctat ctctggatca tcgatctcgg ttgcttgcta gtccagactc cagacatggc 420

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<211> 314

<212> DNA

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<400> 52703

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aaattgtttg gaaatcatga tgatcctgat gaggagaaca ttgaagcatt atgcaaattg 180

atgagtacaa ttggtgatat gattgatcat gtaaaggcaa aggagcacat ggatgcctat 240

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<210> 52704

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52704

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gtggcggtcc ccaagagcca gccgatgcgg ctctactcca gcctgtggaa cgcggaacgac 180
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 <211> 375
 <212> DNA
 <213> Zea mays
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 <400> 52705

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 aagagaaacc atagccactg ccctgagggg ttcagatctt gtcttcataa cagctgggat 180
 gggagggggt actggatctg gtgctgctcc agttgttgcc cagatatcaa aggaagctgg 240
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<210> 52706
 <211> 271
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 <223> Clone ID: LIB3079-052-Q1-K1-A6
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<210> 52707
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 <212> DNA
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<223> Clone ID: LIB3079-052-Q1-K1-A7

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 <211> 324
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<223> unsure at all n locations
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<400> 52708

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<210> 52709
 <211> 322
 <212> DNA
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<223> Clone ID: LIB3079-052-Q1-K1-A9

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tgctggccga ggctgctcc gcagttgtca gcagtgetag ccacctggat ctcgacctgg 180
gcttactgta ctctggtgaa cccccgagg agagccgtgg aacggtggcc gaggcctcg 240
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<210> 52710

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B11

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<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B12

<400> 52711

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tgcttcttcg gcggactcgc ctgagccacc gacgaccact ctctgtacaa cgcctttagc 180
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<212> DNA
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 <223> Clone ID: LIB3079-051-Q1-K1-H4

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<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<211> 269
<212> DNA
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<223> unsure at all n locations
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<210> 52717
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-E4

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<210> 52718

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-E7

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caaggtgaaa gttgtgttct gtccacctgg acctgtcaaa atcgcagcta tccggctgat 240
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<210> 52719

<211> 73

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-F10

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<210> 52720

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-F12

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<210> 52721

<211> 55

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-F3

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<212> DNA

<213> Zea mays

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<210> 52723

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<212> DNA

<213> Zea mays

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 <212> DNA
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<210> 52726
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 <212> DNA
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 <223> Clone ID: LIB3079-051-Q1-K1-G1

 <400> 52726

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<210> 52727
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G10

<400> 52727

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gcgagttcca aggtatgcaa tggaaacctt gatactgggg acagatctgt ggccatgtgg 120
tggattgtat gacctctccc acccactcat gctaagacaa acttgggttg ggcgcccacc 180
cttcgttcgt tgaatcatga gctcgagcct tagaggagaa ttttcagaaa aggaaatcta 240
catgcccagag tgaccatgta aatatttacc attgcagttc gcggacccat gagtaccaaa 300
aaaaagagat gattcatatt gacctgtaac 330

<210> 52728

<211> 117

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G2

<400> 52728

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aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aatttttaaaa aaataaaaac tccaacc 117

<210> 52729

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-G3

<400> 52729

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gtacatctgc ggtccgtgga ctggactgaa gcgagcaagc ctgcgccggc tccgtcgttc 120
tcccaaacag aaactgtagt tggatcaagaa ctgggatact gagttgaata tgatctcaaa 180
tccggtggac tggatatagt tctgaccgg atagaattgg tagggatgca agattggaag 240
gtgcgtgagt tcgaatgtta atttactgat gagtttgccc acaacaatag caacgaa 297

<210> 52730

<211> 56

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-G4
 <400> 52730
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 <210> 52731
 <211> 76
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H1
 <400> 52731
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 aaaacaacca ctctaa 76

 <210> 52732
 <211> 236
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H10
 <400> 52732
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 aaaaaaagac cgtattaaaa aaaaaaaaaa aaaaaacccc acccacaaaa aaaagggcc 120
 acctttctaa aacatccaag ctactcccc catccattcc acgtctatcc cttttact 180
 gccacctaaa ttcaaaccac ttcccaacct ttacaacat cttaactcca aaaacc 236

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 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-H11
 <400> 52733
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acactcaaaa ctcaatttca ctgcccacct aattacaact ccctgacctt catttcacaa 180
 cctcaaccct tctaaaaccc tttcctaccc caactcattt cccctccatc acatacccct 240
 t 241

<210> 52734
 <211> 64
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-050-Q1-K1-H12
 <400> 52734

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 tatt 64

<210> 52735
 <211> 237
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-050-Q1-K1-H6
 <400> 52735

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 taaaaaaaaa acaaaaataa aatataaaaa taaataaaaa aaatttttaa acaaaataaat 120
 aataaaatat aatcaaaaaa aaatataaaa tacaataaaa aataaaaaata aattaaaaaa 180
 aaacaataaa aaacaaaata taacaaaaaa ataaaaaaac aacaaaaaaa aaatata 237

<210> 52736
 <211> 306
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-051-Q1-K1-A1
 <400> 52736

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 gattatgatt tgagtatgac tcatgagatt aattcacacc cctgaaggta aatgaagtat 180

tatttgaggt tggatttgta tctgaaggta aatgaagtat tatttgaggt ttgtgttgta 240
tctgaaggaa gtgaagttta ttgatgtttg tagcatgcct tatacattgc atgactcatt 300
tgcata 306

<210> 52737
<211> 396
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-A11

<400> 52737

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gtttgcttga taggatnttt ganctcgggt ctcgatcccc ttttgctcnt ctggagatag 120
ttgggatgcg cggagaagcg gctaaagttg gacatacggg gaattgaatt gccagaggct 180
gcagatacag aagtccgaat cttgatcttt ttgttcattc aaaacacgga tggatacaac 240
aagtaagcaa tccttccatt cttttggaag ttgtagcaac tgttccctag actatgttga 300
tgcaacctct ttgtatgagt tatcctgtag aacttcaccc gtttgtgcca taagtattct 360
taaaccttta aaaaaaccac cggcatTTTT tttttc 396

<210> 52738
<211> 254
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-A12

<400> 52738

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tcccatatag agtacgggat ccgaganaga tcaatataaa agatactgct aaccaacca 120
tcctacatcn ttagtggcca aagagtaaac gcggagctga tagagtacca gatcctgtgc 180
tgccgagcac actcttctgg acagtggctt ctgctgctgc tccacccgaa atggaagtcc 240
ggcatggaca ggga 254

<210> 52739

<211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A3

 <400> 52739

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 tcgctccctc ggagaatagg aggcagctct ctcttcgtcc gccattgctg gctcttccta 120
 cccctacatg c 131

<210> 52740
 <211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A4

 <400> 52740

 atgcaagcag cgccgcgtgc cccgctgtag caccaagtgg gtctgcctcc agactctgat 60
 cgtcttgtgc ctggtcgtct ccatcgccgt cgccgcc 97

<210> 52741
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-051-Q1-K1-A6

 <400> 52741

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 cagtatgggtg aaggaagtgc agtgctgta ccgtggactc tagtaatgtg taggaacatc 120
 gaaaattatg ttttgagggg ccaggaaact ttgtatcggc aaaggtatct tgatcttatg 180
 gtaaaccatg tagtgaggca catcttttag acacgatcta aaattgtctc atttattcta 240
 aagttttttg a 251

<210> 52742
 <211> 268
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B11

<400> 52742

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atggctgggtg gcggtggact gaaccggtct tcatcgaggg ggcagctgcc gccgcaagag 120
ctgcttgacg atctctgcag ccggttcctt ctgaatgtgc ccaaggagga gctggagtcg 180
ttcgagcgga tctgttctt gctggagcag gcgcactggg tctatgagga caactccgtt 240
gagcacaact ccaacctcaa gtcctctt 268

<210> 52743
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B12

<400> 52743

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tgcaatggaa gtcgcgaagc aagccnaaca ggagatactc agggctgatg ccagcataag 120
ccaaatcagc ttgcagctaa gattgggcca acaaataag caacttcagc tagcatcgca 180
agaacgtcgc tgatctacat gcaagagatc actgatccaa ttgctggctg cttcatgagt 240
ctactcggga gtatttcctt ttgctaattt ttctgacata cattaacttg gtctgcttat 300
gaagcaataa gctataagat tctaagaacc gactgtgtac a 341

<210> 52744
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B2

<400> 52744

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gccgtgtcgt gtcgtgcct gtctgtcct gtctgtcct tctggggct catctagcat 120
tcagactgtg ttgtgttgtg ttgtgtgtg tgggccgagt gtgcactaca gcatcgggcc 180

atgccctgt tgcgtctgtc tgcgacttta atttggttgt gctgtgtcat ctatctatct 240
aattcatcta t 251

<210> 52745
<211> 80
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B6

<400> 52745

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ggtttgtaga caggaatggg 80

<210> 52746
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B7

<400> 52746

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attttaaaaa aataggacag cc 82

<210> 52747
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G8

<400> 52747

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ttccactact tcaccacctt ctctctcttt tatttttcca atttctacaa ccactctctt 120
aaaatccttc ctcttttaac ttttaacatat actatctata ttaattcaat tctccttacc 180
tatcttcttt catcttcttc taattctttc ttcttctctc tat 223

<210> 52748
<211> 176
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-B9

<400> 52748

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aaaaaaaaaa aaaaaaaaac cgaaacgttt aaataaaaaa attaaaaaaa caaaccacaa 120

aaaaaaaaaa aaaaaaaaaa tntcctcctt ttataatacac ccaatcctta attaca 176

<210> 52749

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-C10

<400> 52749

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agctcactag caacgaccta acaacaatgg ggngcatgat attatacgtc ctcccacccc 120

tccccctact tganagtcca acaaattcct tcattattcc acaatttctca cttntccta 180

ctgccattat tccacatttc ctccctccan ttacttcaat antcttctaa caccatctn 240

ttcaaacctt tattctacaa caatctctta tcactatcat cttaaaacaa ccatattccc 300

aattacaaca acaattc 317

<210> 52750

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C4

<400> 52750

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attgtggagg ggaggagatg gcgtcagctg atgg 94

<210> 52751

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C6

<400> 52751

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c 61

<210> 52752

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C7

<400> 52752

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gtaccgcccc gacctcctc cctctcgcgc ctatggccca gactgttggtg ctcaagggtg 120

gcatgtcctg tgagggctgt gttggagctg tcaagcgggt cctcggcaag atggaaggcg 180

tcgagtccta cgacgtagac atcatggaac agaaggtcac cgtgaagggc aatgtgacac 240

ctgacgccgt cctgcatact gtttcaagac tggcaagaag acttcgttct gggaggctga 300

ggccgttgca agttaattct tcacacctgc cgggtgccacc gtctgacatg gtcgatgatc 360

t 361

<210> 52753

<211> 190

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-D10

<400> 52753

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catgactaca accagacgag caaccnnttc atccgatcat ggaataaagg gtgtcccacc 120

acatcaccaa ncccaacacn acngacatga ggcgggacgc cggcaccgac agggatgatg 180

ggggggctgg 190

<210> 52754
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-D3

<400> 52754

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gttcgcctcc gccgcctgct cgatccgggtg ggaattcgcc gctgccgggt tgttttcgct 120
ggggtgatta aggctcggga ttcgagatct acgcgagtcg cgggcaagca gccatgagcg 180
agggtgttca gggctactag cggcagtact gcgaggcctt cgtcttgctc ttccgcaa 238

<210> 52755
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-D4

<400> 52755

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tctcctcacc gaggtccgca agaactgcac ctgctccttg cttatgccct actgcaagac 120
ccatgttact ttttattact tatactaatt cattttttta tttccttttt ttt 173

<210> 52756
<211> 274
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-E1

<400> 52756

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gcattctgtc atatcgttta agcccacaat ggtaacgata ctgtcccctg aggttgacaga 120
aaaagaagca gaagctgggtg ggaagacggg tgacctagat tcttatgaga ttgaaggcgg 180
tgagacaaaa gcagagatat tgcaaacct agctgagttc cagttttctt gggtcatgta 240
caatggtgcc ctaaaaaatg catgcagtga gctt 274

<210> 52757
<211> 197
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-E11

<400> 52757

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cccgtgcttg ccataaagc tgaagaggat ggtgtcncat gcgtagaatt cattgctgga 120
aaagaaggcc atgttgacta tggcacagtt cctggtgtgg tctatacaca tccagaagtt 180
gcatctgttg gcaagac 197

<210> 52758
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-E5

<400> 52758

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atgaaacggt actgattaag gttgatcgag tctgtactc atcagttgta taccctcaca 120
attatggttt cgttccaagg actctttgtg aagacaatta cccaatggat gtgttagtcc 180
tgattcatga gcctgttggt cctggttcg 209

<210> 52759
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-E8

<400> 52759

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ttaaaaaaaaa aaaaaaacia aaccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaacia aaaaaaaaaa accaaaaaaa aaaaacacia acatacaact aaaaaactct 180
acctacactt tcacaaaaat aaaaataaca aacaatcatt t 221

<210> 52760
 <211> 517
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-050-Q1-K1-F11

<400> 52760

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 atataattat ccacaataat aataaaataa tataaaattc ctaaaataaa ctaataaata 180
 ttattaaata aaataataaa taaacaataa aaataaaaaa aataaaaaaa aaaataataa 240
 cattaaaata aaaatataaa ataaaacaaa ataaatatat aaattaaata tatatatataa 300
 tactaaacta aaaaaatata taataaaaca aattataata tataaaaaata aataaaaaat 360
 taatataata aaaattataa aacaaataaa aataaataaa ataaaataaa aataactaatt 420
 taatatataa tataataaat ataaaatata atacaataaa aataaataat aaaaaataaa 480
 atatacataa aaaaaatata ctaattaatc atttata 517

<210> 52761
 <211> 235
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-F4

<400> 52761

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 aacacacacc ttacttcaaa cacataccat aaatatcatc ctctactaa taactcacac 180
 ttacttaca ttcaaactct accatttaat ttatcaaaat ttttccaaca taatc 235

<210> 52762
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F6

<400> 52762

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gggtctgttag gacatgtgga agggatcatgg gaatgaccat tgggtgcaatg cttgaagaaa 120
tccaaactct ctaccaacaa cacaaacagt cttgttttct ttacttgtcc agtgaagtta 180
tcaagatttt tggatctgat ccatcttgtg cgggctatct tactaacttg atacaaatac 240
ttttcagcca tacagtgcaa cttcttagaa cgattcaaga ttttactgcc agaccagata 300
tagctgatta ttgctatttg 320

<210> 52763

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F8

<400> 52763

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acacacaaac caaaaaaaaa acaaaacaac ccaaacaac aaccaaacaa acataaaaaa 120
aacaaaaacaa aaaaaaaaaa aaccaacaaa acaaaaaccc aaaaaaaaaa aacacaacaa 180
c 181

<210> 52764

<211> 121

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-G10

<400> 52764

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t 121

<210> 52765

<211> 399

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-C5

 <400> 52765

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 catgcgaacc aggagaagcg gtgggtgctg tctgatttcg aggttgggaa acctcttggg 180
 aggggcaagt ttggccatgt ttatcttgcc agagaaaaaa ggagtagtga gattgtggct 240
 ttgaaagttc ttttcaagag ccagctcaag caatcacagg ttgagcatca gctgcgacgt 300
 gaagtggaga ttcagagtca tcttcgtcat cctaatttc ttcgcctgta tgggtacttc 360
 tatgatcaga ccagggttta cctaattcctg gaatacgt 399

<210> 52766
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-G11

 <400> 52766

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 cacggaattc gcagggtttc tgttctttac ctgatcagat tgccgctgga cgtcctaatt 180
 tctggcacac tgtaaactct cattaccaag accagcaagg caatcacaat ctgttccttg 240
 gttcatgggc catgatgcct tcaagtactg gctttgggat gaacagacag agctatccaa 300
 tgatccagga agtcggtggg atgtctcaaa gttgtacaaa cactcaagtt gggaatgagt 360
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<210> 52767
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-050-Q1-K1-G5

<400> 52767

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acaacatcta cctcaacatg gacgccttcc acggcgacaa ggaccacggc ggcgtccacg 180
acggcaccac cgtcgtcttc tgggagtggt ccaagggcga caaccagcgc tgggaagatcc 240
tgccctgggtg aacgtgaaca gagacgagct agatgaatcc aaggaacctt acctagctgc 300
tgccgcgggc gcctaattcg tctcctnccg ctctagctgt tatctgtctg tgtcttcgcg 360
tctcgggttt cctgaatgga cgaattatat atagcatgca tgtacggcta gcgaccatgt 420
ctgaatga 428

<210> 52768

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G7

<400> 52768

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taattttaac cttacctctc ccaccccttc ctctctcttc tcattgttaa caacatctac 120
ctcaacattt actcctatca cttcgactat taccactttc tcttccacta cttcaccacc 180
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<210> 52769

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-049-Q1-K1-G9

<400> 52769

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agttcacatc gtcagctaata gtcatttttg atgtgtgaat ctggaagatg cgtcttctag 180
ttttaatatc tgggagaggg aattcaatct tccggctctat acggcctggc cgaagcaaag 240

caggatcaag actttcaatg cngcttggtg ctagaataac ttttaacatct ccacgcgagt 300
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<210> 52770
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H1

<400> 52770

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 tactggtaac tactcatggc gaagtgtagc tggcaccaga atgacccgta tgcttaacgt 180
 ggtctacaat gcgtcaaaca ttgatcttgt gaggacacat acccttgtga tgagtgccat 240
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<210> 52771
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H11

<400> 52771

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 cgacacactg tactcgcacg gggcccgtaa gttctggatc cacagcaccg gcgc 174

<210> 52772
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H3

<400> 52772

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tggcggcagc tgctagtgcc ctgctcctcc tgetctgctc agccttctgc tcccttgccc 120
 accggggcggc cggcgctcgac tacggctcgt ggcagagcgc ccacgccacg ttctacggcg 180
 gcggcgacgc gtctggcacg atgggcggcg cgtgcggcta cgggaacatg tacagcacgg 240
 ggtacggcac caacacggcg gcgctgagca cggcgctggt caacgacggc gccgcgtgcg 300
 ggtcctgcta cgagctgcgc tgcgacaaca acgggcagtc gtgcctgccg ggcaccatca 360
 ccgtcacggc caccaacttt tg 382

<210> 52773
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H4

<400> 52773
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 tatca 65

<210> 52774
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H5

<400> 52774
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 ctctcctatc acctgaatcc ctcgagtatt catcgccggc gcagcgcggt ctcttccttt 180
 cgctggagaa gggggaagg gacacgaacg gagcagaagg ccatggacac gatgcggggc 240
 gcgcttgagc gggccaagat gctgggtggc atggaggctc acgaggagtc cgcgttgcca 300
 ccgtccgagg agcagtcctt tttcgactac atcaatcggc acttcaccct caacaccact 360
 cagaggctct a 371

<210> 52775
 <211> 408

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H6

<400> 52775

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ccatggccaa gacgatacga ttccaaagct aacagatgct gctgcacaga agtaggctag 180
ttcctttttg tacctcaata cttttgatat ggaaaatcat atacagttca gttggctctgc 240
ttaacattcg atttcactcg ctccaaacga aaaatgcgat ccaatggctg tgcgatttct 300
gtgtaaaaact tgtacacgtt tgactgttct aaacaatcca ttttttatta aattttaatc 360
acttttatat ttctctttgt ttttttatta tcttttcttt aataaaaaa 408

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<210> 52776
 <211> 236
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H7

<400> 52776

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caagaagctt ggtcctggcg cgcacaattt tggagagcag acagaactca ttctattga 180
ccatggtctc tgtcttccag aatgcctaga agaccatac ttcgagtgga tccact 236

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<210> 52777
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H8

<400> 52777

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aaaacaattc ttcaaacat ggataacca tactttattg caatggtgtg acatgagtac 180

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atgacatgac atgacatgct aaggcagaaa attatgttgc agcagtggta tatgtgtggt 240
 tgcagcttgg taggtaaaat tttatgtcat gtgtcagccg aatcatgaaa atatggctat 300
 gtttagtcat gtactcctat tgctctttta atttggattt aaaatatgaa ttttc 355

<210> 52778

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H9

<400> 52778

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 tcgtcatcgt cggcgatggg ggaactggta aaactacatt tgtgaagagg catctcactg 180
 gagagtttga gaagaaatat gaaccaacca ttggtgtgga agttcatacg ctggatttca 240
 ccacttactg tgggtgagagc aaggtctact gttgggatac cgcagggcaa gagaagattg 300
 gtggcctcag ggatggagac tctatacatg ggcactgtgc gatcaccatg tgtgaggtga 360
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 gaaaac 426

<210> 52779

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-A4

<400> 52779

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 atgaatgttc cttctggttc cctaaaggag gtactgggct tgctgagatc tctatatgtc 180
 atggtgaaca tagatgaatc cacatctttt ctaagatacg ggcatttatc acgtgacaat 240
 gtaacccttg tgccgaaaga agtcctgaaa ctgtgcagtg aacttaagcc ccatgcgctt 300
 gctggtggta ggtctttcgg aatacctgat gcctttctta gtccacttgc ttttgactgg 360

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377

<210> 52780
<211> 190
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-B3

<400> 52780

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gaagatcaca aaggctatga agatggttgc agcatcaaag cttncggctg ttcagacgaa 120

gactgaaaat tcacgcggct tgtggcagcc gttcaaccgc ctttctgggg aactcccta 180

atgtgacgtc 190

<210> 52781
<211> 61
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-B5

<400> 52781

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a 61

<210> 52782
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-B8

<400> 52782

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gtgtactata aaaccacggg cccaacccc tcaagtatcc tcaaaagtc 109

<210> 52783
<211> 370
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G7

<400> 52783

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tctcattccc cgatgcgggt ggcggtggcg attctgaaga cggcgacttc gccggctccc 180
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tgccccacgc gatccctgcg gccggtagcg gggcgggccc ggtcaccttc ggcaacggcg 300
gtgagcgggt gccctgttc cagcgccttt ggaccgagga gggcgagatc gtgatccttc 360
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<210> 52784

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C1

<400> 52784

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accctgaaga agtccaagca agagggtctt aaaccatctc ctttcaagca gcaacaagtg 180
cctaaagtga atatcggata gaatatcaca gcattgcaac agaacgaatc tccttttttg 240
aagacttatt cagtgtcagt tcttgtttta acctttaatt tctttaattt ttgtatttta 300
taatttttgt tcttaatttt tcttacttaa tttttacttt tttctatttt tttactattt 360
tttatttttt ttttctttat tctttatttt ttatccttta ttaatcttat ttattttttt 420
attatattat ttattttttt atttatattt tttttatt 458
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<210> 52785

<211> 173

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-C10

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tatataaata tttaacacaa ccaccccaca caatacnnan nncttattcc aacaaaaacc 120
aaaacaactt ccatctaaaa ttacaccaac aaataaaaca aactcaacta tca 173

<210> 52786

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E3

<400> 52786

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acctgccctc ggtttctgat cagcgaacgt tttaaccgcg ggcgtctccc tgctgctcct 120
cgcgggcggtg ctctctctcc aggccctcct cctc 154

<210> 52787

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E6

<400> 52787

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caggtgttca agatcttctg ccgcgccaac gagaactact gcctggccg 169

<210> 52788

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E7

<400> 52788

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gtcaagaacc ctcagaccgt gcatatccat cctagttcag gattagcgga ggtacgtccg 180
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<210> 52789
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-E8
 <400> 52789

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 ttgacactta atactacctg aatctaagtc ttatcaatat gcctaattt tgctggcgga 180
 gctttacttt gtgcaacaca tattctccat ctaatcaact acaaggaggt tgtactcaaa 240
 gaatggattt atggattact tcttgctcac aagcagcgag acatcatgca aggatagggt 300
 cagttgattt tctgtttaag aagaacgtgg agtcattcca agtgcaaaac gcg 353

<210> 52790
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-F1
 <400> 52790

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 tgtggtatatt ctaccggtct tgggtgatca attaatgttg caaacctcc gaagggttcg 180
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 t 421

<210> 52791
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-F10

 <400> 52791

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 ggctccaagg ggcggggcgat cgctggaagc ttcgtcagcc gcgtcctcgc cggcaaggcc 180
 gtctcgccga ggaaggccgt gcacgcctcg gcgtacgaca agaacc 226

<210> 52792
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-F11

 <400> 52792

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 ctggtgggct gcaactacgc cggcacgccc tacgagctgc agggctgcat caacgacgtc 180
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 gtcaagcgcg cgctggatga catggtggcg cacgcggcgc ccggggacgt gctcttcttt 360
 cacttcagcg gccactgcac gtcggttccg accgtcggc 399

<210> 52793
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-F2

 <400> 52793

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 gctaacacgt gctaggtgac tgagaatagt tgggtattgc gttatTTTTT ttaatatgtt 180
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 gtgttcacct aaactcTTTT tcgaacgttt actaattaat ttttttttca tttttttttt 360
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 tttttttttt attttatttt t 441

<210> 52794
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-F3
 <400> 52794

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 gtgtgctgct gctcccatta gaaatataat agcgtatgtt atgttgatgc atatatatat 300
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 aaaaaaataa tttttt 376

<210> 52795
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-F4
 <400> 52795

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 ccctcgagtt gcagaaattg gaccaggaga accgtttaat ttagctattc agtgacgacc 180

tctttggagc agtatttggg tgtgcttact agtatatgtt ttctagtcac cattcacgct 240
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<210> 52796
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F5

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 gttgatgatg tgaccaaagc ctctagcaca aagcgtgctg ctgctcccat ttaaaatata 180
 ctatcctacg gtaccttgaa tcatatatat attcgagcga ctaactacat gtactgtagc 240
 acaaatctta aataaaattg gctttttttc 270

<210> 52797
 <211> 205
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F8

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 ggcgctgggc ggcgggcgcg gcccgctgct gggcggggtgg aaccgatcc ctgacgtgag 180
 cgactcgac atccaggagc taggc 205

<210> 52798
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F9

<400> 52798

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 ttgcagccaa tgcttcaaga actaggcaaa caaaacccac aaatcctgcg tttgattcat 240
 gaaaatcaag ctgagtttgt ccgcttggtg aacgaaactc ctgaaggtgg tcctggaaga 300
 aacatattag gtcaactggc agctgctatg ccgcaatcgg tgacagttac cccagaggaa 360
 cgagaggcca tccagcggct tgagggaatg ggcttcaacc attagcttgt gctagaagtt 420
 ttctttgca 429

<210> 52799
 <211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-G10
 <400> 52799

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 gctgcaatac tataaggctg caccaattac taactttaaa gatgggtcaac gtgtttcaaa 180
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<210> 52800
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-049-Q1-K1-G11
 <400> 52800

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 cacagtgagc tgcttccgag ggcacgcgtg tcattgggta aggtcgcctc tccccgaacc 180
 tcagacaaga ggggtctggca acgggcctgt gactatatag ggctcatgaa tgaaccagac 240
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ttgaattaaa gagggaccaa aattggaact taaggteccct tttaaccttt aaaccaacca 360
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tattttt 426

<210> 52801
<211> 139
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G12

<400> 52801

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cttggcttcc atcaggaccc tccccaccta ccgacacacc tatatcaaac acaccatac 120
ccacttgcca attctaaat 139

<210> 52802
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E11

<400> 52802

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tgtagctact gatcccgaaa ggtgtcagcc atcgctaatt ggccttgtcc tcaaatagtg 180
aaggaactac gcagctttct ttgattggct ggctactacc gcaaatttgt ccgtaacttc 240
gaagtcatat caaaactttg actcttctgc tcaagaaaca ttcagtgttt gtgtggacgt 300
cagtacatga tcatgctttt aacgtgctga aacagtcctt gtgcttggcg catgtgttga 360
aattgcccac ctttggacat gcattttcag gtgaaattga cgcagcaaca actggaatgg 420
gtgcaat 427

<210> 52803
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-049-Q1-K1-G3

<400> 52803

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ggtctaccag aggtcctcct ccttcgggga cgatgtcatc actgcctaca ggaccccaat 120
atgcaaggcc aagcgaggag gcttcaagga cacctaccta gaggacctcc tctctgttgt 180
tctcaagggt cccttcctct caaggtcaac cgccagtgtt catctaggct acaggcagta 240
gccgatgtcg tagctgctat aaaggttggg tactatgaca taggtacata gtatctgaat 300
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tggtcgggta gc 372

<210> 52804
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G4

<400> 52804

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aaaaaacaaa aacaaaacga acgaattaaa aaaacaaaaa acacaacacc aacaacaaaa 120
acaaaaaaca ccaaacacac caactactca caaccccacc tataccttca tcatcaccaa 180
cattaactac accctcatct tctctcccta ccacttcaac ctc 223

<210> 52805
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-G6

<400> 52805

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tccggccgca ccgagaccgt cgtcatcacc gacatgaact acaccccggg cgtcgcgccc 180

taccacttcg acctcagcgg caccgtcttc ggcaggctgg ccaagcccgg ccgcaacgac 240
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<210> 52806
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B9

<400> 52806

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tgacgccggc ggcgggcaatc ttccggtaca gcagccacgt cgtcgtgttc ttggtcgggc 180
tgatgcagcc gagcatgctc cgtgcgtca cggattggcc catcgccgcc gtcatttatg 240
acgagactct ccacgactgc ctgaacgaga tctcgtgcac tctcctacag gccgatgtcc 300
agttcaagat ggtccgcgac atgtttgcca acattaatcg catcgtcaaa cttgaggcgc 360
ttgccgcatg caccaacaag cgccg 385

<210> 52807
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C1

<400> 52807

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atcgctttgc tccaaccact ttaccctgt tcattgagaa ggatttcatt aatcttcttg 180
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tgttattatt ttatttttat ttgttttttt tttttaattt tttttttttt ttttttttta 300
tttttttttg gtgttttttt ctttttttat tttttttttt tttttttttt ttttttttta 360
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tttctatttt ttattttttt ttttattttt ttattttt 458

<210> 52808
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C11

<400> 52808

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cgacagcgcc ccaggggttc tactctcgtc gcagcggcag cagtgagggg aagatgtcgt 120
cgggtgttcag cggcgatgag accgccccct tcttcggctt ccttggcgcc gccgccgctc 180
tcgtttttctc atgcatgggg gcggcgtagc ggacggccaa gagtggcgtc ggcgtggcgt 240
ccatgggtgt catgcgcccc gagctcgta tgaagtccat cgtgcccgtg gtcattggctg 300
gtgtgctcgg tatctacggc ctcatcatcg ccgtcatcat cagcactggg atcaacccca 360
aggccaagcc atactacctc ttgacggct atgccacact gtcgtccggc cttgcctgtg 420
gtcttgctgg gct 433

<210> 52809
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C12

<400> 52809

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gagaactcgg tgctggaagc tgtgctgcaa ggggtccgca tgatctgcta ccctgtctcc 120
gcagaccatt tcgtcaactg cgcctacgtt gttaacttgt gttaaagcat gagtggacct 180
gcggatcaga tgacagtga ctgcgacgcg ccgctcttaa tgcggcatgc gctgctacaa 240
gtggaggact ttt 253

<210> 52810
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C2

<400> 52810

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gaagtctctt gaccttcctc atagtgagaa aatgaagctt ctccgagacg agaagaatag 180
agggtacaca cccatgctag atgaaattct tgatcctgaa aatcaagttt atgggtgacta 240
ctattgttga tattatattg gagttgatgt accttgctaa ttattcataa tcatatcttc 300
tatttttatg gtctcatttc attgctcttt tatataagtt tctactctaa tttgtttgta 360
atattattgtt ctttttttta tggatatggtt ttttttattt tttatatattt attttttata 420
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<210> 52811

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C3

<400> 52811

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tgctggctctt gcattcttacc ccattgatac tgtccgcaga aggatgatga tgacttctgg 120
tgaggctgtc aagtacaaga gctcattgga cgcattccag cagatcctta agaaggaagg 180
ccccaagtcc ctgttcaagg gtgctgggtc taacattctt cgtgccattg ctggcgctgg 240
tgtgctttct ggctacgacc agctccagat cctcttcttc ggaaagaagt acggctccgg 300
cggtgcttaa atggagaaaa atgatgacga acaagagcag ttcgctcccg gtccagccca 360
atcaggatct ggtcaagttt ttgctcttt 389

<210> 52812

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C8

<400> 52812

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gtgcctgctg atgacttgac agatcctgct cctgctacta cctttgccca tcttgatgct 120
 acaactgtgt tgtcacggca gatctctgag cttgggtatct atcctgctgt cgatccactg 180
 gattccacat caagaatgct ttctccccac gtgctgggtg aggatcatta caatactgct 240
 cgtgggtgttc agaaggttct tcagaactac taatatcttc agggatttat tgctatctgg 300
 gtattgattt tcttagttga gtttgactag tgtccttttt ttctttcttt ttagtttatc 360
 ttttttttat cttttttttt atttttttta atttttttat tttttttttt ttttat 416

<210> 52813
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-C9

<400> 52813
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 acagattctc atcataatac aattccttac ctacaaatct aactataca actacctacc 180
 actactttca taacaccttc ataaactaca ccgaaaacct atactcaaaa atcatcctat 240
 acacacacac acatatgtac ctctaattaa acttcaacaa cttatccacg tatcaaacaa 300
 tgccgaaatc cattaacatc attaacccca atcatctcta ccatcatatc atcaacttct 360
 actaatccc 369

<210> 52814
 <211> 109
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D10

<400> 52814
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 gtcattttct tcattgatga aatagatgct atgggttcaa ctagaaaac 109

<210> 52815
 <211> 369
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-049-Q1-K1-D12

<400> 52815

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gcctgcatga gagaagaata aggtctgagc atggtcctgc ttgaaatfff gcccgctcaa  120
ttctgcagct agcagaaaag cactgcttct ttctaaggca tgggagtgcc gtatgaagct  180
tacaatagaa tgaagcagcc tcgcccgcga ttctgttacc tagtactaat tgcgttgtgt  240
cacgtgatag cttatgtacc tgacatattc ttttattcta attatactca ttcattctacc  300
tttcgagttt cgactgtaca tattatccac cngtgggaat ggaaggactg agttaacatg  360
tgatacgaa                                     369

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<210> 52816

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D2

<400> 52816

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caaaaaacaa caacaaaaaa aaaaaaaaaa aaaaataaaa caacacaaaa acaacacaaa  120
caaaaaaaca ataaaaaaaa tcaaaaaaaaa aaaaaaaaaac acaataaaaa ataaaaaaaa  180
aacaaaaacaa aaaaaaaaaa aaaaaaaaca aataaaaata actacaaaaa aaaaaaaaaa  240
acaacaaaaa aaaaaaaaaa taaaaataaa aaaaaatata taaaaaaaaa aacaaaaacaa  300
aaaaataaaa aataaaacaa aacaaaaat                                     329

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<210> 52817

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D6

<400> 52817

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aaaaaaaaga aaacaccacc acccccacaa aaacaaaaaa caaaaaaaca cataacaaaa 120
 aaacaaaaac aaacaacaaa 140

<210> 52818
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-D7

<400> 52818

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 attgcatact tgatattata ctattatttg agcttgtctt attgtactct tatctgttct 180
 tatgaagggt agaggaatgt gtttgggggtg agtaattttt ttgtgttggt tcctctatcc 240
 atggccatgg aggagcaaag gaggccacct agctcgaaga tagcgccagt gtccatgaag 300
 gcgtcctctg caaatgcgac gcttcaaggc atgaagaaca gaagccattt tcgaagggac 360
 aggaaaactg cgctgcaaca aga 383

<210> 52819
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-D8

<400> 52819

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 aagtgttctt gctgctgtat caagggtgcc ctctccttca gttcctgcaa caactgttcc 180
 tgcagtacag gtgaatgggg gtcattgacag cactgttgaa gatgtacctg caccaccact 240
 gtcattgcca ggcctaattg atttgatgag ttgatccac gtgaatctgt cccagattgt 300
 tcccctcttg taaaccctgc attaattcct aatagcttgg agaaggattt gtttggatca 360
 gatcctatta gtttcg 376

<210> 52820
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-D9

<400> 52820

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 gangggacct ccaagcagca ctccggcgag atcgaggctt ccgccgctac cccatacgag 120
 ctgcagegcc gctcgtcgc tgcgcctcc gggccgact ctgcctactg cgtccagtcg 180
 tcctatctca tggtcacc 198

<210> 52821
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-049-Q1-K1-B8

<400> 52821

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 accatctcgc cgccgccaca ccacaatcca caaccgctcg aagcgaagca agcaatggcc 120
 ggagtcggat cgaaggccct cgccgttgcc gccgttctgg cggccgtctc cttctcggtg 180
 gccgccgcgg ccgaggcgcc cgcccccagc cccgtctccg tcgtcgtcgc gtgggttttt 240
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 ggggtggggtg gtttttttct ttttcttttt ctcttttttg tttttttttt gttttttttt 360
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 ttttttggtt tttttttctt tttttttttt tt 452

<210> 52822
 <211> 155
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H7

<400> 52822

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agtaataact aaagtaatgg ccgagttcac gtaacgtgct cgccgaatgt acgatcgggt 120
gtaccggccg gacgtatgta caagcccagt gcaat 155

<210> 52823

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H9

<400> 52823

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aaaaattaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattccc ctttttttcc aactttttta 180
aaaataataa taaaaaaccc ttaaacccaa taaaaaaaaa attatcccc tctccaattt 240
tttttttttc caaaaaaaaaa aatcaaactc cctttccttc tacttttttc ttttcctcct 300
tttttatctt aaaataaaat cttttttatc ccccctaaag aactcttaaa atattttttt 360
tttttctct 369

<210> 52824

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A1

<400> 52824

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tcttttgaga ggtcttttagg gttgaaaggt acttcgaaaa ccgaaccagc gtctacaggc 180
ctaagaggga tttccattga aactcgtcga tgatactaca gttttctttc cccatctgtg 240
ccggttgtgt tgtactacca ctaccagtga cagtgaagtga cttctaagct attcattttt 300
ttaactggag aagttgatat catgataatt aaaaaaatt ggggtgtgtat tgaactatta 360

<210> 52825
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A11

<400> 52825

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 actagcaaat caatataatc cactaattct ttggactata ccacaaattt ctcacacatg 180
 ctatattttc acgaccacac aatactctat ctaatccggc tctatataac aattcacact 240
 aatcatcata tcaccaatgt cagtgtcat actgttcac tggttggcac ttctctgtca 300
 aatccttata tttctttcgc atccactcta aatgggtctaa ctgtaccact gcatgtcctt 360
 tcaaatacatg aactgctctt atttatcaaa tctgtaatt 399

<210> 52826
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A2

<400> 52826

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 gctgtgtcct agtctatgat gttcattcta tgaaatcatt tgacaacctg aataactggc 180
 gagaagagtc tctaattcac gctagcccat cagatcctga caatttacct gttgttctcg 240
 tgggtaacaa agttcatgta gatcgtggca acag 274

<210> 52827
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A4

<400> 52827

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gtatatgaat catgcactaa attaatcaaa gttttaacat atatattcaa aggctagaaa 180
tctgaacctt agtatgagca cccgataggg catgttgctg taggggtgtgt ttgactatgg 240
tacatctgga tgaacggatg tatgctaagt tgaattgtat ttttaataaaa ggtgtttgat 300
gcggatgtat gaatggatgt aaaaaaatac agagattatt tgggtgtatg agttaatgca 360
at 362

<210> 52828

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A5

<400> 52828

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gaaaaggagg aggaggatgg cgaggaattc gttcaagttg gagcaccctt tcgaaaggag 120
gcaagctgaa gctaaccgca tcaaggagaa ataccctgac agaatccctg tcattgttga 180
gaaggccgag aggagtgaca tcccagacat tgacaagaaa aagtaccttg 230

<210> 52829

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A6

<400> 52829

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cgatgtacta gtgcatcacg tgatgatcag gtgacagttc gagatggata ttacacgaat 120
gaagcacaag aaggatcatg gcatgctcag aatgagccag gccttctgta tactgaagga 180
attcacaat tcatttgctg caaaaacatt tgcgacgaac agaccgttcc agcagaacac 240
agtagacacg atgtatgtca gggaaaacta gaagaaatta aacgagggaa agaacatatc 300

aaaatgcccc a

311

<210> 52830

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A9

<400> 52830

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tcctccttga cgacttctac aggactccag gaggcattca gttcgaagg cctgggttcag 180
atgcaaagcc catcacgctg accattgaga accaggacta catgggtgac attgagatac 240
tgaaagagta ccttggaag gttaggacca tggatgaagc aggggtgctc cgggagatcc 300
tgaaggcggc gatcagttcc atgggtgcgg tgactgatgt gctgactgtg atgtcccacc 360
ccctcaacgc cgagctgccc ctctaccatt ttaagtgagc gagggcatca gtctgggttag 420
tattcctaga agtgttttga aa 442

<210> 52831

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B1

<400> 52831

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gctaactctt gcaacaacgt cctttgatgg ttatttatat ttgattgagg gatcgagtgg 180
ctgtgcagat gttgttgaca ttggagagac ctcgtacact atggtttttg ctgataacgt 240
ggatggtgga gatgaccttg atcttattgt taccactatg aatggcaacg tcttctgctt 300
ctccactcaa tcaccacacc atccgcttaa ggaatggagg tcatcaaacc aaggaaggaa 360
taatgctgca tatcagtaca ac 382

<210> 52832

<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B11

<400> 52832

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tgcttccagt cagaggtcca aaatatcaaa gggatgcaga aagatgtggt tgcattgatg 120
agtaccttgc ctggaaattg gcaggatata caaacatagt tgtactttac ttgatctcga 180
tgacattgga ctgcaaatat atgcacaaca attgcctcat gcacacacac ataatggggc 240
cgcgagttgt agctcaacca tcgtctctgg tttctttcta ggtggagatg gttaaaattg 300
ctgggtcactt ataattacca gcatcttata cgtcattgct gttcatcgcc aacttattca 360
agtctgaaag tagaactctg aggagatggc tgagaaagag gatattctaa tgcagagata 420
tgagatggga aag 433

<210> 52833
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B2

<400> 52833

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acatatataa cacttggcaa tttcaagatt tctatactac tcctctacat tatcaaact 120
ttatacaatg caaaaatact aactcttgca acaactttct tttaatctta tttatatatt 180
attt 184

<210> 52834
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-B4

<400> 52834

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tctctcaciaa tccactctaa ctcacactga cctacactac acattcatat catgcttaca 120
ctttcccat ccccatcctc ctcacatcca acccatctc 159

<210> 52835
<211> 344
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-049-Q1-K1-B6

<400> 52835

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ttgtctccca ggtcatctca tccctgacgg cttccctgag gttcgatggt gctctgaacg 120
ttgatgtgaa cgagttccag accaacctgg tgcctaccc gaggatccac ttcattgcttt 180
cgtcctacgc tccagtcatt tctgctgaga aggcctacca cgagcagctg tccgtggctg 240
aaatcaccaa cagcgcttc gagccatcct ccatgatggc caagtgcgac ccccgccatg 300
gcaagtacat ggcattgtgc ctcatgtacc gtggtgatgt gggt 344

<210> 52836
<211> 56
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E2

<400> 52836

tgcaatattg ataacctgaa aaatacatat gttttaaaat gtacaaccat ctaata 56

<210> 52837
<211> 51
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E3

<400> 52837

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<210> 52838
<211> 320

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-E5
 <400> 52838
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 ccggacctac gcctggtacc ggaccaacgc agaattgattg ggatgtcatt gacgcagact 180
 tcacagatag caattggggg gtgattgatg catggccatg tgttgagcaa ggttggcggt 240
 aaggagtgaa caaattgttc cttttttgtg ttgggattgt tactataggc tatctagcat 300
 ggagttgttt agatagtttt 320

<210> 52839
 <211> 122
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-E8
 <400> 52839
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 cttgacttcg tcggggcagc ataagctgta agagcccata tcccctgggtg gcggctcctc 120
 tt 122

<210> 52840
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-E9
 <400> 52840
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 ggaaaacctt cctgtcagcc ttcctcacct gtcacagcag atttgttcaa tgcggcgaaa 120
 agtttggagt tcggatcctt ggggccattc tcattgggac ttccctcaac ctcgacacag 180
 tttgaggaag aattcccagc gcttcctact agaaagagag ccgaaggccc catttcagtg 240
 gcgcccagcg ctaaggctgt tgaaacaaaa agcaggctcag aagagagtga agagatgttc 300

cgactgagaa atgaatctga tttccctccc ctccaagctg gctgccgctg agactgacag 360
gacgtcgaga taatccatgc taatcgtaat ggta 394

<210> 52841
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F11

<400> 52841

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gagtcaggcc acctggacca ctttctccat cctcagtttg agaaccctgc ggcgtacaag 120
gatcaagtca ttgccactgg tctgccagcc tcacctgggg ctgctgtggg ccaggttgtg 180
ttcactgctg aggatgctga agcatggcat tcccaaggga aagctgctat tctggtaagg 240
gcgagagacca gcccttaaga cgttgggtggc atgcactctg ctttggggat tcttacagag 300
aggggtggca tgactt 316

<210> 52842
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-048-Q1-K1-F12

<400> 52842

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attgaaactt cagaatctca nacgcgttcc ctaggttttc cctggagaaa caactaaaca 120
aatggcatca tcaagcttca tgggaaagag aaactgccgt agaatacctc ccagaggaga 180
angaaaggtg aaaaggaaaa aagtaaagcc tgtaaagctt tgtcactgat aaattaaaaa 240
ggagctgaga aggaaacaaa aagagaagaa gcaagaaagg cacattaaag aaaaaagaga 300
gaacccggaa gcaaaaaaga g 321

<210> 52843
<211> 156
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F2

<400> 52843

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tttattttca gggtgacagc aggtctagca tctttgatgc gaaggctggc attgccttga 120
acggcaactt tgtgaagctt gtgtcctggt acgaca 156

<210> 52844

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F7

<400> 52844

tccgcgaatt tgctattggc tcgttctgcc cacgaccccg gacgctatac tttcagagtt 60
cagactcaca atcgccggga gccaccgcaa ttcccgccac acgtctgccg tcgacgagtt 120
ggagtactgc gagttgtgc 139

<210> 52845

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F8

<400> 52845

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gctcgggcta tacctgcgct gcgatgtcac cgtcggcctc tgggtggacg ccaccgcggg 120
cgacgacgga gccggggacg tgccactgct cgag 154

<210> 52846

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-F9

<400> 52846

aaaaaaaaaa aaaaaaaaaa attaaataaa aaaaaaaacg ccgccccccc ttggaaagta 60
 tacattatta catcctccat cctacaacat aattattcta taatatcacc aaaaaaaaaat 120
 aaactacccg ccattttaca acaacttcac tactaaaaaa accccatcac caaacaaaat 180
 aatcttctag caaatcatcc ttttttcacc tgctttcata ataaagaaga cccaccaat 240
 catcattctt aacaacattt catcactaat aataaataat 280

<210> 52847
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G1

<400> 52847

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 gagtgtggga aatcaaagca tgctggtgtg gaaaacctgg aagacaacgg tgttcacctg 120
 tctcctgatg aggatcaaaa tgctagtcca aaacaaacta ctgtaaagaa attggaagtg 180
 tccccttcag tctccacacc aatttcttgg gttaaaaaat gtgctcaggt gatattcaaa 240
 cgctctccag agaagagtgc tgatcccaac aatgatatac ctccaaagtt gggaaatgtc 300
 aatgactgta cctccttagc tactgcctat tcagatggat tgtttgcttg tcacctggaa 360
 aatggtgctg agaaagta 378

<210> 52848
 <211> 265
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-G10

<400> 52848

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 ggtcctctgt gcctcaaaan gcccgtcgg cctttatcct ggtgctatct cagttatggc 120
 aagtagtttc atggcaagtt gaacatctta gcagaaaagt gccatgaata gtatgtagta 180
 tgtacgctta tgtttgtaac aatataaaaa tatatatata tcattagctg caaaaggagg 240
 tcgttttctt agaccttatt atttt 265

<210> 52849
<211> 238
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-048-Q1-K1-G12

<400> 52849

taaaacacaa aaacacaaaa cattacctta tacaacacaa aaacataaaa cagcgcgccg 60
cttccttttt aaaaaaacac aaacctcccc cccaaccncc ctctataaac tatccaacct 120
aactcaccca ttcatacaac tacaaaatca cctatacaca aaccaaaaac aaaccatttt 180
accaattact accaacatct taccaataaa aacccttacc taactcacct tattctcc 238

<210> 52850
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G3

<400> 52850

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gagcaaggac gtgggcaagg gcttccgctg catccgcatg gtcaacaaca cccgcctcaa 120
cttcgacgcc ttccacggcg acaaggacca cggcggcggtg cagcactgca ccgtcgctcg 180
gctctgggag tgggtgcaagg gcgagaacca gagctggaag atcctgccgt ggggtcccga 240
ggccaactcc tccgcggccc acgcgggagg cccgcacgcc gtgcgcgtct tctgcaaagc 300
cggctgcgag gactacagcc tcacggtgcg catcggcacg gcgtgcctgg cgcccatcaa 360
cc 362

<210> 52851
<211> 52
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G6

<400> 52851

aatagaatgg cagaaaacct aaacgttagg atggcgaaaa gagaaaagaa cg 52

<210> 52852
<211> 121
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-048-Q1-K1-E12

<400> 52852

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cactctagcc agcaccaacc ccccaaccgc cattgcnaac accttcctgg tgcccataaa 120
c 121

<210> 52853
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G7

<400> 52853

gctcgcgctt ttcagccttg tctaggagga cgcgctgatg ctgaggagga agagctagta 60
cattggcaag ggcttcact tcttcctcat ggtcaacaac gcccgctta acttcgacgc 120
cttcacggc gacaaggacc a 141

<210> 52854
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-G9

<400> 52854

cacttgcaa atgcacaagg gttggcttta ataactgtca tgcttggtac cagttgggta 60
atgtcactcg ttattgttct ttgctggaac aagagtatct tccttgccct tggtttccta 120
cttttctttg gcacgatcga agtaatctac ttctcagctt cccttgtaa gtttcatgaa 180
ggtgcttggg ttcctattag tcttccttc atatttatgg tgatcatgag tgtctggcac 240
tatggcaca taaagaagta cgagttcgat gtgcaaaaca aggtttcagt aaactggctc 300

ttaaaccttg gcccttcact gggcattgta cgagttcgag gcattggact aatacatata 360
gaactaatgt ctggaatccc aactatcttc tcccactttg 400

<210> 52855
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H10

<400> 52855

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ccgcgcgcgg tccccgtccg gcgtgatcca cctcaccgac acctccgtca cccgtttcct 120
ctccgcccc cccgcgcgcc gccctactc cgtgctcgta ttcttcgacg ccgcttcgct 180
ccactcaaag cctgacctcc acctgcccc gctccgcacc gagttcgcgc tcctctccgc 240
ctccttcctc gtcacaacc ccgattccgg cgacctcttc ttccgccaca tcgagttcgc 300
cgagtcgcag cactcctttc accagtttgg tgtcaactcg ctgccccata tccgcctcat 360
ccgttccgat cac 373

<210> 52856
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H11

<400> 52856

aaaaaaaaa agaaaaaaaa aataaaataa acaaaaaaaaaa aaaaaaaaaa ctggaaaggt 60
aggaatacac aaataaaaaa accacaccaa acaccaaacc aacacc 106

<210> 52857
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H3

<400> 52857

cccacgcgtc cgctgaatgc aagttgattg acagatatga agcttcacta ttgctgagt 60

gggtctaccc tttacttgct gatctttatc atatatttgc tgatattcca tcgattggta 120
 gggctatggg ttctgctcag aagttgctta cacaagttca catgggggag ccaatcagca 180
 gtgatatgtt gtctgatgtg tatgtattta gaattgcaat agaagccctc atgatgggct 240
 taaacagtgc agccaggtcc caaattgata ccggagatta acatgggtca aatgatctgg 300
 gatttttaa 309

<210> 52858
 <211> 159
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-H4

<400> 52858

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 cgggtacacc tttgatgttc acatcctttc caatgctagc tgcaccacaa actgtcttgc 120
 tccccttgct aaggtcattc atgacaactt caccattgt 159

<210> 52859
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A9

<400> 52859

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 acaaatttac atgctggttc tgttcaaccc gtgaatctcc taaggtcaca gcgtttttat 120
 ttcattctat attatatttc agtctggact aatgttgaga tctccatag tatctacgtc 180
 taagcatttt tcatttgtat ttaccatgtt ggtcaattgg gatatttgtt tcttgtatgt 240
 tagcatgttt gaaccatagc aattggtgga cgtgtgtaga gaagattgca aaactgcagt 300
 atgatggatt ccaactattca tcaaccgaga tcatggcgcg cttcaatcgt ggctacgctg 360
 aatgggaatt gatccgttat ggctcgtggc 390

<210> 52860
 <211> 367

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-B10
 <400> 52860

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 ctagctgcga ctgctaccgc ttccccacgc cagcatagca tgcaatatgc atatatatgg 120
 tcgacgacga cgatggcaca cggccggcag caccaccgcc cgccgccgcg ccggtccacg 180
 ctatgcatgc atgcagctac gtttcattta ttaccagggt ctntgatatt cttatatata 240
 tgttgacgac tatacatatt agctgatctc gtttgtcatg ttattatgtc gtgctcattt 300
 aatcagagag tgagagagag gatgaataat tcaatctgct cgacagacat atatcgctgt 360
 cattgga 367

<210> 52861
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-B11
 <400> 52861

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 tgtaacatat ccagcttatg aataaattat gtggatcaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa tatattaata atatacattt ttataatata aaaaataaat tttttaattt 240
 atatttaata ttttattttt tattatttta tttatattaa tattttttata tcttttaggg 300
 ggtggggtag ttatttatta ttaattatat atttggtggt atcccttcaa atcataaaaa 360
 acacaaaaaa ttacatctat ttctttttat ttttaataaa ttttataatt atatccttaa 420
 aattaatttt ctctatatct atttta 446

<210> 52862
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-B9

<400> 52862

cccactcttc cgaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aggaaagggt 60
taaaataaaa aaaaaaaaaa acccaaccca aaaaaccccc ccaacaaaaa aaaacccaac 120
aaaccaaccc caccaaacca caaaaaaacc ccacaaaaaa acccccccaa aaacaaaacc 180
ccaccccccc ataccccccc cccaaccccc aaaaaacccc cccctcccc caccaaaacc 240
ccctaccccc catcccccca cccccacct cctaaaaaac cccaaaaact cccccccatt 300
ccccctgcc caccacaatc ccacccccaa aaatccccac aaaaccccc cccataccct 360
cccctaaaac ccccccccc cctcctctcc cccccccca cctaacccca ataccccccc 420
cccaaccccc caaccccc 438

<210> 52863

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C10

<400> 52863

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gccgcacgac aacaacatca tgctctggaa cgccgtcata ttcgggccgg atgatacgcc 120
gtgggacggt ggcacgttca agcttacctt gcagtttaca gaagattacc caaacaagcc 180
accaactgtt cgatttgtct ctaggatgtt tcatccaaat atatatgctg atggaagcat 240
ctgtttggat atcctacaga accagtgagg tcctatatat gatgttgctg caattttaac 300
ttctatccag tcctgtgtgt gtgatccaaa cccaaactcc cctgcanact cagaagcagc 360
aagactgttc agcgagaaca agcgggag 388

<210> 52864

<211> 235

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C11

<400> 52864

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agctgccggc ctatgacaac aagaagatcg aggacgccat cnacgcggcc atcagctggc 120
tggacaccaa ccagctcgcc gaggcggacg agttcgagga caagatgaac gagctggaga 180
gcctattcaa ccccatcatc tccaagatct accatggcac ttatgaacac atggt 235

<210> 52865

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C12

<400> 52865

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aaacctccca gggcaggttg tttaatataa cttaccncaa agaagtnttt ttttttttca 120
tattcttctc atcttttaat caatcttttt tttttttatt ctttcttttt attttatttt 180
ttattttatt tttttatttt cattatttct ttctttatat ttctttctat attttcttta 240
tttttatttt attatttttt ttattttatt taattttttt atttatttta atctaatt 300
tcatttctat tcttttaatt ttttcattat aattatcttt taattttttt tttttatttc 360
taattttttt ttattttta ttttcttttt atttttaata ttaatactat tatttatatt 420
tattttatta tctatttta 438

<210> 52866

<211> 144

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-C2

<400> 52866

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acatcagggg cactttgcat ctggggctgn ttcttcgacc aacttctcaa actgagttga 120
tcgtttactc tgatgtcgat tggg 144

<210> 52867
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-C3

 <400> 52867

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 gcgtttactg agcgtacgat cctccaaata tttttggagg atgagattaa tggtccttct 180
 ggtttcctaa aggaggtact tggcttgctg agatctctat atgtcatggt gaacatatatt 240
 gaatccacat cttttctaag atacgggcat ttatcacgtg acaatg 286

<210> 52868
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-C9

 <400> 52868

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 acaccgatgc cgcggagagc ccgcccgcga cgacggagaa ggcgaagggc aggaggccgc 120
 cgccggctcg tggccatggt ggctcagcag ctccccactt catgtcctcc acggtgtgca 180
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 cggcgggtgc ggtgaacaag taccgccgcg cggctgctga nctttatggg agccagaacg 300
 cggctgccag ggctagcagg tcggcgctcag tggcactcct cgccgggtgtg cacaagttga 360
 gtgtgcttgc gtgtcaac 378

<210> 52869
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-D10

<400> 52869

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tncctttttt tttcttttct tttttttttt ttttttcttt tttttttttt tttctttttt 120

tttttttttt tttctttttt ttttttcttt tttttttttc tttttttttt tttttttttt 180

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tttttttt 247

<210> 52870

<211> 63

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D12

<400> 52870

cgtccgattc ccggtcaccc acctccggtt gcttgaggat gattaaataa ctgcctcctc 60

ata 63

<210> 52871

<211> 291

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-048-Q1-K1-D3

<400> 52871

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ggtattngtt cgagacattg aacttttctc ctattgtgag tcatgcttgc ttccattcag 120

catacagtgc catgtcgggt atgttccttc aggtggaaga gttggttggt taagcaagct 180

gtttagagta tctgatgtct gttctaagag attgcaaaac ccttaaagac tttctattga 240

aatctgtggt gcactgcatg cttgcattca acctgcttgt gtggctgttg c 291

<210> 52872

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D6

<400> 52872

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accgcccctg acgtggtgac tgcgtcctgc tccgctctcc gtgcgccacc ctgaagcggt 120
gagggcgagga ccttcaagca accgccttcc tggttcggct gctaccttga ggcctttctt 180
tccaccggtt caacagattc tgatccgaac ggccaaaggc 220

<210> 52873

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-D9

<400> 52873

cggactcttg ggccgcgcgc tttgctctgg cgagaagggc gtgggcaagt cggggagtct 60
cgctccacta caagggtccc acctccacc gcgtcatccc cgagttcatg tgccaaggcg 120
gcgacttcac ccgcggcaac ggcaccggcg gcgagtccat ctacggcgag aagttccccg 180
acgagaagtt cgtgcgcaag cacaccgccc ccggtgtgct ctccatggcc aacgccgggc 240
ccaacaccaa cggtcccag ttcttc 266

<210> 52874

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-E1

<400> 52874

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tgatggttcc ttactacaa gctttattac cacaattggt attgacttta agatacggac 120
aatagaattg gatggcaagc gtataaagct acagatttgg gatacagcg gccaagaacg 180
ctatcgtagt attaccactg cgtactaccg tggagctatg ggtatcttgc tggttaatga 240
tgtcaccgat gaatcttctt tcaacaacat tcgaaactgg attcgggaaca ttgagcaac 299

<210> 52875

<211> 275

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-E10

 <400> 52875

 aaaaataaaa aaaaacaatt caacaaaaaa acaacaaaac aaaaacacaa taccaaaaaa 60
 caaataacaa aaataaacca aaaaacaaaa aaaataaaaa aaaacaataa acaaaaaaaaa 120
 atacaaacaa acaaacacaa aaaaaaaaaa ccaaaacaaa aaacaaaaaa aaaaaaaatc 180
 cacacacaaa aacacacaaa aaaacaacac acacaaacaa aaaaaattca aaaaaaaaca 240
 aaaaaaataa aacaaacaaa aacaacaaca tacac 275

<210> 52876
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-E11

 <400> 52876

 caagaacccc caccatcccc actcgctgc agatcgattc gcgaaagaga cgggcgcgtt 60
 ctcatcttac cgttcccnna cccccctct cctcgctgac tcggctcccc tcctccgccg 120
 tcgcctgaag ctaagcaagt tgtgaccaca tattcatt 158

<210> 52877
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-F11

 <400> 52877

 cgacaacacc aagtactacg agatcctcgg tgtgccaag tcggcgtccc aagaccgcct 60
 cgttaaggcc taccgcaagg canctatcaa gaaccacccc gacaagggcg gtgaccccg 120
 gaagttcaag gagctcgac aagcctatga ggttttgagt gatccataga aacgtgagat 180
 ttatgatcag tatggtgaaa attcccttaa ggaaggaatg gttgttggtta atttctttcc 240
 taattccttt ttcatcaaca tttctttctt cataattatt tat 283

<210> 52878
<211> 70
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-F12

<400> 52878

ggttcggaac ccgctcgggc cagcgtccgg gctacagacg cgccaggcgt ccttcagtag 60
ncgccggccc 70

<210> 52879
<211> 474
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F4

<400> 52879

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atgtgtccca tcatcaaaac tgaacagtc cgactattca gcttgctgca ttatcactaa 120
ccgaaggcat tatctcctaa cttgaaagcc ataacaaact atcttcagtt tgcaattgag 180
tgatgtttcc agaggttatc tggcacatga cagtattgct cttttttttt cttctatggg 240
tgtacttgag ttctgttttc gtatatgcac tcttctgttt actttctttt atgctattca 300
tttattttta atgttttttt ctttttttct tttttgtttt tttctttaat ttttttattt 360
ttattttttt tttattttct tttttttatt tttttatttt tttttttttt tttttctttc 420
tttttttttt tttttttatt ttttttattt ttattttttt ttttttttta tttt 474

<210> 52880
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F5

<400> 52880

ctcttcagct cggtgctgtg gatcttctac gcgctgggtga agaccaactg cgagcgtctg 60

cttaccatca acgccttcgg ctgcggcgtg gaggcggcct acatagtcct ctacctggcg 120
 tacgcgccgc ggccgggcgc cctgcggaact ctggcctact tcttcctgct ggacgtggcg 180
 gccttttcgc ttcgtcgttt tcttttctct tttttttctc cttttgcttt tcttcgtttt 240
 gttcttttggc tttttttttt tgtttttttc ttgttctttt ttcttttttt tttttttttt 300
 tttttttttc tgtttttttt ttcttttttt cttttttttc ttttcttttt tttctttttc 360
 tttttttttc tttttttttt ttcttttttt ttcttttttt ttttcctttt ttttttgttt 420
 ctttttttt 428

<210> 52881
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F7

<400> 52881

agagaaacta ccaccaaag gtcctactaa attcttgatc aacttgagag agagatggta 60
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 ccgcctgcat atgaagaagt caatggtata ttcatgagga atacggtcgc atagttagtc 180
 gagaccgtgg agtatttcct ggcttatgca atttaatcat atcgagcata gagcgacact 240
 gatctcaacc tttcagcttg tgactacata gttgtttcta aaggtttctt acaattgatg 300
 gtccgattgt taattcattt ttagtgcttt ctttttcttt tacttcttca ttttttattc 360
 tttttctttt ttttctttgt tttttttttc tattttttta tttttttctt tttttttttt 420
 attttttttt ttgttttttt 440

<210> 52882
 <211> 127
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-F8

<400> 52882

ccacacgtcc cagaacaaca acaacacaac ttacattata aaaaaaaaaa caaaacaaaa 60
 aagaaaaaga aaaaattaaa catataaaaa aacccaaccc acaaaaacaa aaaaaacaa 120

caacaaa

127

<210> 52883

<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G1

<400> 52883

cattcccaac tccaccact cctcactaca tactatataa actaccacca aaattttcta 60

ttaaatcttt atcaac 76

<210> 52884

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G10

<400> 52884

cgccacgcgt ccgggcacat tgtgaatgat gttccaaaca gtttgctgaa gcacatcggt 60

ggctagaaca attaaaacaa gccagtgaca aacagcagag atacacatga ggtgaagctt 120

gagcaaggcc ttcaagtgtc taaggttttc aaggatcatg tgtgcaagac atctatactg 180

gatgactttg gcttttacga taatcgtgag aagatgattc aatataggaa agcaaagca 239

<210> 52885

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-G3

<400> 52885

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aagtgtcgat ctttgcattg cagcagcagc tggctccaag gggcgggcca tcgctggaag 120

cttcgtcagc cgcgtcctcg ccggcaaggc cgtctcgccg aggagggccg tgcacgcctc 180

ggcgtacgac atgaacctgg aggaccaggt gcgcccggcg ttcgtgc 227

<210> 52886

<211> 97
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-G4

 <400> 52886

 aaaaacccaaa caaaaaaaca acaataaca aaaaaaacac aaaaaaaaaa aacaaaacaa 60
 aacacaaata aaacataaaa aaaaaaacac acatcac 97

<210> 52887
 <211> 270
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-G9

 <400> 52887

 agcaggacag ggaaaatgtc tcgaacaata tcaaattcag taatgtgtat gtgaaggatg 60
 tgtccgatac tgttactgat gatcagttga aggagatggt tggaaaatat ggaaccataa 120
 caagtgtctgt tgttatgcgg gatagtgatg gaaattctag gtgttttgga tttgtcaatt 180
 ttgaaaatgc agatgtctgt gctcaggctg ttcaagagtt gaatggcaag atattcaatg 240
 ataaggaact gtatgttgga agagcacaaa 270

<210> 52888
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-H4

 <400> 52888

 gcgcacgcgt ccggtcaagt cgaaaccagt tctaataata ggatcagtgt atctctggag 60
 atacgttatt gtttacccta ccgtatctgt aaagtaatga tgccggccga actacctttc 120
 ctaacgcgtt tgggcagaaa ttcgttgctg tcaccatatt ttgactgttg tttttttctt 180
 tttgtctttt gatttttttc ttttttttct tttttttttt attttttttt ttttttttat 240
 tttttttatt tttttttttt ctatttttat ttattttttt ttttttttta tattttattt 300
 tttttttttg ttttttttat tttttttttt ttattttatt tttttttttt cttttttttt 359

<210> 52889
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-H6

<400> 52889

ccttattccc tctcgacca ctcatcctaa aaaaaaaaaa aaaaactttt aattttaaaa 60
aaaaaaaaaa aaaaaataag aaaaagtata attttaaaaa ttttaaaacc aaaacaataa 120
tatattataa t 131

<210> 52890
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A1

<400> 52890

ccagaccgca ttgagtgtta tgctgagagg actgccaaag gtaatgtgct cgaaccgcaa 60
gggttaattg aaattaagtt caggtcagag gaactccaag actgtatggg caggcttgac 120
ccagagttga taaatctgaa agcaaaactt caagatgcaa agcatgtaaa tgtaagtcta 180
ccatacatag aatcgcttca gaagtgttta gaaacgcgta caaaacagtt gttaccttga 240
tatacccaga ttgcagtacg ctttgctgaa ttgcatgata ctttcctgag aatggcagct 300
aaaggcgtga ttaat 315

<210> 52891
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A10

<400> 52891

catttcttct ctctctgctc ctccgcctcc gcctgatcca tccaagacag ggagtcggca 60
tgtcggactc ggaggagcac cacttcgaat cgaaggccga cgctggggcg tccaagacct 120
acccgcagca ggctggcacc gtccgtaaga acggcttcat cgtcatcaag aaccgtccct 180

gcaaggttgt ggaggtttct acctccaaga ctggtaagca tggccacgcc aaatgccact 240
 ttgtcgccat agacatattc aatgggaaaa agcttgaaga tattgttcct tcatcacaca 300
 actgtgacat tccgcatgtg aaccgtactg agtatcagct gattgatatt tctgaggat 359

<210> 52892
 <211> 124
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-A11
 <400> 52892

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 gtgttttact attaccacca ccacctcnaa tccaanacct acacttgacac ttccaatacc 120
 tacc 124

<210> 52893
 <211> 243
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-A12
 <400> 52893

agtcacatcc atcatccatc cttgcttcca agcaccaact aatcaaataa cgagcagcct 60
 tattaataat tactcaccat ccacaaacaa aatcaacaa cctcacttct accttctact 120
 gatactgaca ctaacaattg catccaatct gttctctctt cataaagaaa ccactctcca 180
 aatctaattc ttcttctccc tccaaaactt ttacatcttt tcaactccata ccccatcttt 240
 ttt 243

<210> 52894
 <211> 156
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-048-Q1-K1-A2
 <400> 52894

cgcacgcgtc cgcacatata tgatcttgctc tgtgtgtcaa tgtgtcgaaa aacatagctg 60

gggttttagct atatgaatgt aacgcgcaat gtaacataca ggactagctg cttgcttgac 120
 gatgcgtttg cgtgtatccg tataaattaa aggcta 156

<210> 52895
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A5

<400> 52895

caacaacgtg aagtcgagtg tgtgtgacat tccaccaatt ggcctgaaga tgtgctgcga 60
 cattcgttgg caactcaacc tccatccaag agatgttccg ccgcgtcagc gagcagttca 120
 cggccatggt caggaggaag gctttcttgc actggtacac aggctagggt gttgatgaga 180
 tggagttcac cgaggcatag atgtacatga acgacctggt ggccgagtat cagcatgtct 240
 tggatgccac tgccgaggat gaggagtacg aggaggatga agatgaagag gaagaga 297

<210> 52896
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C11

<400> 52896

caacaatgga ggacatgatt ttcattgctac ccttccaaat aacatgactg aggaagggta 60
 tgtgatggaa gaagaacaaa ggatctatac aaggcttcaa caagagagga gggaaagggga 120
 ggaggctatt aaaaggaagg ctgagagaaa tgcaaaaatg aaagctgaga tgaaggaaaa 180
 gactatgaga atgttcctgg tttctcagaa acacattggt tacaccgaac cacttgaaat 240
 acatgctgga actactattg atgtgcttta taatccttct aatacagttc taactggaaa 300
 gccagagggt tggtttcgat gttcatttaa tcgt 334

<210> 52897
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C2

<400> 52897

gacgcgctct gtatcggctc attaagcccg tcgttttttg gtgttttttt atttttatct 60

tttttttttt atttattttt tttttttttt ttttttttta ttattttattt tttttttttt 120

ttttttcttt tttttatttt ttatattttt attttttttt tttttttattt ttttttttat 180

tttttttttt tattatcttt tttttatttt ttttttttat ttttt 225

<210> 52898

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C4

<400> 52898

tgccccctgct cacgttcgcc gggcgcttcc tcttcgggat cccgaccatc ctggccgtga 60

aagtctgctt caaggctctg tccaagtggc tgctgcccgt tttgtgcatc accctgttca 120

ttcttacctt gtcattctgc tacttccagt tctttatagc ttacagctca tcttcaatat 180

acttggtttt ctcttctctt tttcatcttt tgcttttact ttattttttt ttttatgttt 240

tatttttttt ttttttcttt ttttttttta tttttttttt tttttttttt ttttttaatg 300

ttttttttta ttttatattt tttttttttt ttttaattata tttttttttt tttctttttt 360

ttattttctt tattattttt tttttatttt ttttttttat tatttttttt tttattttat 420

tttaattttt tttttt 436

<210> 52899

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-C8

<400> 52899

tgcacacgt ccgtgccagt tccatgttac ctcaagctac cctgtatctg gcatacgtag 60

gattgtcatc ttccacatca taacctcaa cactgacatg cattctttaa atcttctatt 120

ca 122

<210> 52900
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-D10

 <400> 52900

 cggcgggtca ncancatcac aaccactgcc ctaagatggg gaagttttctc aagcccggca 60
 tggtcgtatt tcttcttcac cncaccttcc ccnnccggaa ggcgggttatc gttcgcgtgt 120
 tctatgattt cacctcttac ct 142

<210> 52901
 <211> 484
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-D11

 <400> 52901

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 ggtaccggca cctgctcagc aaggaccagc cgaggcgaag gggaaagcga aatcgaagca 120
 gcatacggcg gagatggagg agaggcagcc cgtggacgcc agagtgactg tggagtacga 180
 ccaccgaggc gtctgttggg tctacttgag ccttatgcct tctcttgctt ttattagcta 240
 caactcattt gctatctgat ttctagtttt ttatttttta ctcttcttta ctcttttatt 300
 ttttattggt ttgttaatat tttatttact ttatattata tttcacnctg tttttttttt 360
 tttatttata agcccaanna aaaatgggta ttttcaattt tttataacaa ccaattttta 420
 aattaatttt ttttattata tttttattta tatatatatt ttttttttta ttttatttta 480
 tttt 484

<210> 52902
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-D2

 <400> 52902

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aatgatcaaa aagatggccc cctgcaaagt agcagcagcc ttactcctgt tgatcacaac 120
aatttccgtc aacaccgtaa cggggtcgcg atgtaacgct caggagaaga accagattgt 180
gagcttgtgc caaatgtaca tccagagagg aaccctcggt cagcttccat cccaaactgg 240
gccatgctgt gctgctgtta tagagcctga taggtttcac agggtttatg cagatgaagt 300
gcatttgagg tcttttttac ccttgatact tttttaatta ttatctatct tttatctatt 360
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tttta 425

<210> 52903
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D3

<400> 52903

ggttcgacct cagtgggtga gccatattac agtgtcctgt ccaccactc cctcctggta 60
cagtctgatg ttgctatcct gctggacaac gaggccatct atgacatctg ccgccgttcc 120
cttgacattg agcgccaac ctacaccaac ctcaacaggc ttgtgtccca ggtcatctca 180
tccttgactg cc 192

<210> 52904
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D6

<400> 52904

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atctctgccg atccggagaa gcaggcggcc cccgcggcac atgagactgc cgtgcacatc 120
gtgtacgttg accgtcccta ggacgctgac cctgatgagt ttcacattct caccttttat 180
tttttccttt ttagtttaca tattgttttt gtttctttgt ttttattatt cttttacttc 240
tttttttttt ttttcttttt tttttttttt ttcttttttt ttttttttgt tttatttatt 300

tttttttttt tttttatttt tttttttttt tttctttttt tttatttttt tttttttttt 360

tttttttttt tttttttatt ttttttaatt tttttttatt attttttttt tttttttt 417

<210> 52905

<211> 100

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D7

<400> 52905

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gttttttttat tatcgttaaa cttttaaaaa tattttaaatt 100

<210> 52906

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-D8

<400> 52906

taaaaaaaaa aaaaaaaaaa ttaaaaatta aaaaaaaaaa aaaaaaaaaa aagaaaaaga 60

aaaaatataa aaaataaaaa aaacaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaatcaa tcaaataaaa tacataaaaa aaaaaaaaaa 180

aaaatataaa aaaatttaatt aaaaaaacaa tataaaacaa aaataaaaaat aatataataa 240

taaataaaat aaaaaaaata ataaaaaatc aaaaaaaaat taaaaataaa ataaataata 300

taaaaaaaaa aaaataaaaa taaaaataaa ataaaaaaaaa tatataaaaa aaaaaaaaac 360

aaacaaatta atataaataa ataaaaaaaaa aaaaaaaata aa 402

<210> 52907

<211> 307

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-047-Q1-K1-D9

<400> 52907

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 gggttttcttc tgttcatata acatcccnna accctgctgg tcagataaga tttgtgaaca 120
 caccttgcca ctgagagaga aggcgtctta taatttgata tgaacaagaa tcaacaatgt 180
 tcattattaa aaaatattaa caaacatata tttttatttt ttattattat tatctaatat 240
 tattctctct ttaattttatt ttcttattat ttttaatttt ttcttctata tttacttttt 300
 tatttttt 307

<210> 52908
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-E3

<400> 52908
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 ttcagaacct tatacgactc tgttcagtc atcaaacct c 101

<210> 52909
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-E4

<400> 52909
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 ttgctgataa tctggctatg gactgttatt ggaatcaacc atttgcattt cttttattct 120
 ctaaagatat tataactcat tttaaagatc tacctactat tttcatcttt tttttatttt 180
 tttttattat tttttttatt ttttttattt ttttttatcc tttttttttc atctttatta 240
 ttttttattt attttatttt tttatttttt ttatttatta ttttattttt ttttattaat 300
 tttttttttt tttttttttt atttcttttt tttttttttt tatttttttt tttttatttt 360
 tatttttttt tttttttttt tttttttttt tctttttttt tatttttttt attttttttt 420
 tatttttttt tt 432

<210> 52910

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-C1

 <400> 52910

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 aaataacttg tgaacagtac cgagggtgta tatattgcag tgacaaataa ctaggacact 180
 gctaattcta ctgctggctt accactgtct tggttagatt tatccctaca agattgttta 240
 ctgtgtatct cttatgttta tttagtcata ctttgttttt tatatatattt tttttatttt 300
 tttttttttt tttttttttt ttatatattt tttttttatt tattttttttt tttttatttt 360
 tttttatttt cttttttttt tttattattt ttttttttta tttttattttt tttttttttt 420
 tttttttttt t 431

<210> 52911
 <211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-E5

 <400> 52911

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 aaccttttac aattcatgtc accccatcaa acctac 96

<210> 52912
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-E6

 <400> 52912

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 ccttttcccc ctgcgtact cccccgtcc acggtccaag gaaagatggc gtcccatatt 120
 gttggatacc ctgcgatggg cccaagagg gagctcaagt ttgccttgga gtctttctgg 180

gatgggaaga gc

192

<210> 52913
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-E8

<400> 52913

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atcattctgc caagctgggg gctgcatcgg ctgccacgg tctccaccac cgccgtccga 180
tgagacatgc tactaggacc tcaagtgttc ggcttctatg tgccaccttg gttgcataca 240
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attcactttt ttgctttttt tttttctatt tcttactttt ttttctatat gtttttcctt 360
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<210> 52914
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H5

<400> 52914

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tacacaacaa aacctcaacc aaacaaccaa caacaccaca aacaacaaca caaacaacaaa 120
tatacact 128

<210> 52915
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H9

<400> 52915

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 tacaccaatc tctacaaaca caactaactt accccatcta caaacattat caaacttata 180
 ccaaattctct taattaaaac 200

<210> 52916
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A1

<400> 52916

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 gagcaggagc aaatgttatc gttgcgtctg tggaggagaa tgttacaaat tgtgacctct 180
 cttcatatgt ttaatctaata agctgatatt atattgtatt aattcattta aatgctatct 240
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 ttttggtttt gttttttttt tattattttt ttttttattt attttttttt tttttattat 360
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 <211> 87
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-A10

<400> 52917

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 aaaaaaaaaa aaannanacc ccccccc 87

<210> 52918
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A2

<400> 52918

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tgtttacttt gactcgtttt atttctcttt atcttattat tttctttttt tatttttttt 180
tttttttttt atttattata tttttttttt tttttttttt tttttttttt tttttttttt 240
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<210> 52919

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A3

<400> 52919

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gccggcgggtg aactactggt ggccgctgcc tgctaacgtg tcgagggccg cgtacgggag 180
gtccacgcc cggtaccgta agacctctg gatcgcgcac cacgcgccg ctctgcttta 240
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agggtggtgt tttttacttt tttattctat ttttttttta tttttttatt ttttattttt 360
attttttttt gtcttttttt atttattttt ttttaataata tatattttta tatttttttt 420
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<210> 52920

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A4

<400> 52920

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 ccacgtcgct cattcagatc gaggtgggtga acaccattta tgacttcaact ttttctcttt 180
 cttgcttctg tctgtctttt actttctttt tatttatatt ctattttact ttttattttt 240
 tctttttttt cttatttttt ctttttctat tttttttttt ttttttttta tttcttttta 300
 tattgttttt tttttttttt attttatttt tttattctat tttatttttag tatttttttt 360
 tttttttttt tatttttatt tttttatttt ttttctttat ttttttttta ttctttttta 420
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<210> 52921
 <211> 79
 <212> DNA
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 <223> Clone ID: LIB3079-047-Q1-K1-A5
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 atgcacccct cctccactc 79

<210> 52922
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-047-Q1-K1-A7
 <400> 52922

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 gtccagatct tcatcaagat gcatcgttca gactatgctg agaagcaatt gaagatcatg 180
 caacaaattg atgaagacca tacacttaca caacttgcaa actcatggct tgtcattgct 240
 gttgtttgct ttaatatctc tgtatcttat tttatattcc attacttttt tgatgagttc 300
 ttttttttct attttttttt ttattttata ttttattttt ttcttttttt ttattttctt 360
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tattttt

426

<210> 52923
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-A8

<400> 52923

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aaaaaaaaaa aaaaaaaaaa gaaaaagaaa aattaaaaaa ttataaaaaa aaaaacaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa 180
atataaaaaa taaaaataaa aaaaaaaaaa ttataattaa ataa 224

<210> 52924
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B1

<400> 52924

cgatcgagcc acgcgtccga gatgcctaag atggaccgat gcgataggga aggatacaga 60
ca 62

<210> 52925
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-B10

<400> 52925

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tcaacagaag aagacgagga tgctgggatc caaggtgtac accctcgagg aggtggctta 180
gcacaacacc aaggacgact gctggctcgt catcggcggc aaggttttta atgtgaccaa 240

gtttctggag gatca

255

<210> 52926

<211> 271

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52926

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agataagttt tttggcctca aacaccnata ctatatccan ggccagtgtg cgatcatcat 120

gtttgatgta acctcaaggc ttacttacia gaattttctn accttgcata aggacctttt 180

caggttcttt taaaacatct tcattttctc tttctttttt tattgtttaa ttttttttta 240

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<210> 52927

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B12

<400> 52927

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cgggttcctt tggtgtccct cccaaacttc cccctgaatg aaatgccact ctgcctaacc 120

aaggttacct gttgcctggc ctgccccgcc cttctccctt ggccctcttc ctttctctc 180

tccccgcgcy ggtgtttgcy cgtgtttaga gggccatatg ccacctgtaa agcttgaaca 240

ataaaacatt tgtgcacatt cacatgtgtg aatttttttc cttcttt 287

<210> 52928

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B2

<400> 52928

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atcctatcca aaa

73

<210> 52929

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B4

<400> 52929

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gttgatcttt atacatgggg gttccatgtg ttacaatggc tgggtgctgt catgctcata 120
acgttggtgt cagcttgctc agcaaagtcg ggttggggag gctggttgcc aaaactgatg 180
atgagtatgt gagcctagcg ttgtatttgg ctttttattg ttatgtcctt catgttctgt 240
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<210> 52930

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B5

<400> 52930

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ttcaatgtct gttagcgggtg gcatcaatgt ccagtgatg cagacccgc tctgtgctaa 180
tgctcctgct gagaaaggag gcaagaactt catgattgat ttcatgatgg gcggtgtttc 240
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ccaagattat gattattaag tcttgtatgc tttcatagcc tttcaatgtt attgttgtct 360
gctttaaact tattattttt gttttatgtt ttcttttttt tttttgtttt ttatttgttt 420
attttttttt tattt 435

<210> 52931
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-B6

 <400> 52931

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 tccaggaggt ccgtagctgc tcatccatgg catgatctcg agatcgggtcc tgggtgctcct 180
 gctgtattca atgttgttgt tgagatcaca aagggaagca aagtcaaata ctagcttgac 240
 atgaaaactg gactgattaa ggttgatcga gtcctttact catcagttgt tta 293

<210> 52932
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-H12

 <400> 52932

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 gcttgacaac ctgggtcgtc ttagccagca tcactttctg ttattcaagt tcgctaacta 180
 gtttcttttt tttatctatt ccttcaatta cttgcttcta ttattctctt ttttctttta 240
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 tcttctatta tttttttttt atttattttt tttttatatt ttcttttttt tttttttttt 360
 tattcttttt tctttcttat ttttttttct tttttttatt tttttattct tttttttatc 420
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<210> 52933
 <211> 116
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-047-Q1-K1-B7

<400> 52933

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gctccccggc tcgctggcgt ggcacagcag caactgtgca ccgggcgcgc ccggca 116

<210> 52934

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F12

<400> 52934

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cttgctgagc ttatgctagg gcagcctttg tttccagggtg taagtgggtg ggaccaactc 180
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atltggtttc cttcttttac tttttttttt ttttttattt ttttttggtc tttttttttt 360
tttttttctt tttttattga tttttttttt tttttttttt ttttattatt tattttttat 420
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<210> 52935

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F2

<400> 52935

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gtgatgatat gagaaatcag gtttggtagg ggctgctgcc tgggcaagtg gggtttctgc 180
atatggtccc aggtagtatg gtcgcacatg tctgctcaca gattctgttt aatgaaggaa 240
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<210> 52936
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-F4

 <400> 52936

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 aaggcaaaga ccttgccctga aagcacgagc attgagaaca agctgacccct ttacggcctc 180
 tacaagcaag ccacgggttg agatttgatt accaatcgtc cggccttatt ttaccaa 237

<210> 52937
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-F6

 <400> 52937

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 ttgttgagaa catgatggat atccttcac tggtactttc ttctccaata ctgctcttga 180
 ttacttttct tgctcccctt tcaacttccc tatogetatg ctagcttcat ctcatgttct 240
 tgtcttatgt gcttccttac ttattcaaa ccttcttttt gttcatcttt ttattaataa 300
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<210> 52938
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-F8

 <400> 52938

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 tagagctcta cacggacgat tatatttata cattttaacc aacccacca aaggtttcaa 120
 aatcacccaa tgactccaaa gaacataaga atgcaacact caaagatcct aagaaagcac 180

caaatgattc taaaggactg aataaagcgc ttaaagatcc taaagaacat taatcattcc 240
aagacccaaa ctaacatac 259

<210> 52939
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G10

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<210> 52940
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G11

<400> 52940

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ggtgtgccga agccggtggc aaacggaggc gatgtggtgg cagtggcaga gtcaggcccc 120
gcgagctggg atgaggtggc taggctagtg ctacgcatag actcagc 167

<210> 52941
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G12

<400> 52941

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gaagaatttg tggcttcaag atgctaccta aaatgatggg aacaaaggaa atggagactg 180
cacaaatgag gtcttgtcag ctaacttggg gaacttgaaa ctggatgttt cttcttaata 240
ctattatt 248

<210> 52942

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G4

<400> 52942

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catcactcta tattgggccc ggcaattgct gaagctttga aggactctag catgcctgta 180
cgtctagctg cagaacgctg ctcccttcat gttttccagt taacgaaagg gccagataat 240
gttacagcag cacaaaagta ccttgggatg actggcttgg aagtgaagaa aat 293

<210> 52943

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G6

<400> 52943

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taggaatgca ggcattgcac atgacttcac aggaacatgc cgctccttga gccgtgatag 180
gaatttcact gaatcgggcc cattctctag tatgagaatg agacctggct attcttctcc 240
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atggttgga gagaaaaggc 320

<210> 52944
<211> 233
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-046-Q1-K1-G7

<400> 52944

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acccgcacat ggagtcaaac tgaatcggac ncattcaacc aactgagaag agaccattca 180
catgctcaat ctttaactca aacttaccta tctatcaact cacatcagag cgc 233

<210> 52945
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G9

<400> 52945

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ggcctttgcc agctcgctgc ttcccgctgc tccctacctc ttctgcgcta cccccgcgtc 180
ctacgtctcc ttcttctttc cgccattaa catcaactcg ctcttttctt ctgcgcaact 240
c 241

<210> 52946
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F1

<400> 52946

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cctcaccaac aaaatccata ccatactatc cacacacgct ctaaaccctc tttcttaaaa 120

cgtactccat tatctacctt cagttcgtgc tcaccattga cttaaacaac accgtataacc 180
 atatcacccc gatcccactc tta 203

<210> 52947
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-046-Q1-K1-C10
 <400> 52947

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 cttattttct ttctttcttt cttttatttt cttattctct ttcttttatt tctctcttct 360
 ttatcctttt tttatctttt 380

<210> 52948
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-046-Q1-K1-C3
 <400> 52948

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 cagaatccaa acgcatcaaa aacctgtatg tgcggcaaat ctttcgcgac tgcgaaggaa 180
 ttcgaggctg catcaaacgc ttgctacatc tagagtagtc aaatattgat agcaaactcg 240
 gatgtaactt gttatatatc tttgttctga tcaaatacag tagcttcacc acttatactt 300
 ggttcgtttc aaaatagttg gctttgtttt tattaacatg tttacttttt taatattttt 360
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<210> 52949

<211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-C6

 <400> 52949

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 cttattctcg gctcgttcat ttcaaatttt tatatcacia acccaatcaa acttaaataa 120
 tatctataca agaaaacatt actcattaac ttttacacia ctccttactc ataattttcta 180
 taccctcaca at 192

<210> 52950
 <211> 346
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D1

 <400> 52950

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 tcctatcaca attccatacc tcttgtgaat tgcataatcc ctgaaccat ctagtttttg 120
 aactctattt ggcgccgaag ccttctggcg aatgtcacgt ctacctgtac gttacaccaa 180
 aagacattgt ataataaaat aaagatatct aaaactataa aattcaatac attataatct 240
 attaaactcat tcaaaaaaaaa atggtcacat gttttataaa atccattttt acatcccctt 300
 acatccgcct taataatttt tttaatgggt ccctaaattt aattta 346

<210> 52951
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D10

 <400> 52951

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 ccaagacttc aaccttcctt tgcatttgt gatcgggttc gcatgtccgc gacagatccg 120
 ggcaaacggg ccgatgcagt tcttcggctg ctgctgctg acgtcggctg cgctcaatgc 180

ttcttttttt ccttcttttt ctctataatt tttttctttt ttttattttt ttttttttat 240
tataattttt tctttccttc ttttactctt ctttatcttt tctctttctt tttttattat 300
tttttttttt ttttttttct tttatttttt gggtttattaa ttttttttct tttttatttt 360
ttctattttt ttattttttt tt 382

<210> 52952
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D12

<400> 52952

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ccagcagccc acaacttcac atctcaatat acatcacaat tttaatccat ttcacatttt 120
caatcatacc attgaattct tcttcaacct tcaaattcta attcctccaa atcatgatta 180
tcaaatatct atcctgaaca ttgtatcttt taaaacttca aattcccat ataactcata 240
cttttttact actttttcta ataaatcact atacatatca cttctacata ttcacataat 300
tctcatcatt ccaaacaatt tacttctttt ttatta 336

<210> 52953
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D2

<400> 52953

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tagttcttag gatcgtaaat taggtggtag gaatgtaggc aagtaccatt ccaaggaatt 120
gaaagagagc taagcctaag gaagagaata gcaagaaaaa aaggaaatgt tcagtgttaa 180
gcttaatgtt ttgtcacgag gacacacttc atgcataatt gttacgttct aaatttgatc 240
catttgggtct tgtgggtttg attacattac agttctgcac atacc 285

<210> 52954
<211> 230
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D4

<400> 52954

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ccgggtggat cacaccaggg accacgtagt ggtgcacgac ggtccgact gtagctgcta 120

tcatagtgtc gcataggacg cgagccagta tctgtaagga tctatgtatg tctatactac 180

gtcctactcg ctgtgactcg tacgcttctc ctccgtctgt gactgtcata 230

<210> 52955

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D6

<400> 52955

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tactacaaac gtgattctta atctccttcc cttgctgaca cctgatcagc tgtcaacctg 120

tcttgctcat ccgtgatcat ccaacacatc tctccttccg accatcctgt atagatctct 180

tctcttca 188

<210> 52956

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D8

<400> 52956

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cctcaatcag gggggcagtt acctgtatct cttctcttag ttgctctgac tctattcttt 120

ccaagtggaa gaagaatagg atgctgatgc tcaagtgtaa gctcctgaaa atgtgacata 180

tatctactta atcttatatt agttacttat tattttatat ttttttatgt aaattacctt 240

tttttttatt aattattatt tatattatct tatataatat tttttctatt tattttttta 300

tatttttat 309

<210> 52957
 <211> 186
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-D9

 <400> 52957

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 gaggcttgtg aacacacaag taattttttc taacactcgt acctcttaat tgtaactgat 120
 tgccatctca taaacttctt atcaacatct ctttttctca agtgactgcg aattctatcc 180
 tttttt 186

<210> 52958
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-B9

 <400> 52958

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 gtttcagaaa tttctcagaa atttatttaa tactttgcc a tccccttata ttgattttct 120
 cctattcttt tttcttttta ttctttttat atcttcttct cttattctct tatttttttt 180
 tttttttact ttttttctta tttattttct tttttt 217

<210> 52959
 <211> 68
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-046-Q1-K1-E3

 <400> 52959

 ttttagtttg aattaagtac atttatgtaa gagttatttg acagcgatta tgaaatcgag 60
 aattatct 68

<210> 52960
 <211> 284
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-046-Q1-K1-E4

<400> 52960

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tgancgcttt cttcgccaat aaggagatga ggattctcat ggtcgagctc gatgcctcct 120
gtaagaccac catcctctac aagctcaagc tcgtctagat cgtcaccacc atcctcacta 180
tcggattcaa tgttgaaact gtttaataata agaacattat cttcactggt tgctatTTTT 240
gttgccatga catgatcatg ccccttttga agcactactt ttat 284

<210> 52961

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E7

<400> 52961

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agctagagag agatctagta taggatgtat ctatttagtc ctcgaacgaa catgttcgct 120
gtcttcatct ttcacctacc agtatatcac taattatTTT cttaaaccct atatctTTTT 180
cat 183

<210> 52962

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G5

<400> 52962

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ggcggcgccg acgaccggcg gcgtagaaga gccccacagg tacaggcccc gaaccgtggc 120
gctgcgcgag atccgcaagt accagaagag cacggagctg ctgatccgca agctgccctt 180
ccagcgcttg gtgcgcgaga tcgcgcagga cttcaagaca gacctccggt tccagagcca 240
cgccgtgctg gcgctccagg aggcgcgca ggcctacctc gtcggtctct tcgaggacac 300

caacctctgc gccatccacg ctaagcgcggt caccatcatg cccaaagaca ttcagctcgc 360
ccgccgcac cgtggcgagc gcgcgtagcc atcatcttcg gggatctgat gaatgtctag 420
ttaccaaaca aa 432

<210> 52963
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G8

<400> 52963

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gaaggctaaa cagctcctta tctcaggcgc tgaccaattg cctgcgttat tacctccgaa 120
ggcctgagac agatgaagac agctattgat tgttggtgtt gtcgaacctt cctatagtg 180
attagaatca gaaactttgg cttcagttcc ttcgctatgg gccccttgta ctgctgcaaa 240
tggagttttc cattgtagct gataaagtgc cgacaagggt catccatagtg tgcatagggtg 300
gcactgaatc ggggctcact ggaccagttt gatattgtag taatatatat acagctggga 360
gcaacataat tt 372

<210> 52964
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G9

<400> 52964

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caagcaaggg tctcactat ccgggagggc tctattttac agggcttccc cgattactac 120
cgattgtttg gcccgatcaa ggagaagtac attcaagtcg ggaacgcagt ggctgtccct 180
gttgcccggg cactgggcta ctgtctgggg caagcctacc tgggtgaatc tgaaggaggt 240
gacccttttt accagctgcc ttcaagtttc acctctgttg gatgactcac tgcggggcat 300
gcgatggcct ctctgtttgg caccctgca cgggaagtag ttgagcacta aaaggattac 360
agatctgac tgatcttggc aacatccaac ggcaggagca ttttttgtt 409

<210> 52965
 <211> 171
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-H1

 <400> 52965

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 tggaaaggta ttatattaat ataaataaat taaaaaata ataataatta ctttacttct 120
 aaattaatcc ttatcttact ttctctttca ttcttcattt taatcttttt t 171

<210> 52966
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-H10

 <400> 52966

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 catctcctct tcatacatcc tccaacttca tccaccccac caatatcttc caccagata 120
 catccatctt tcatactatc tcaataaatc cctttttcac tattcaacct tcatccacaa 180
 ttttattata cctcctcaat tacattccca taaccatttc actctccata c 231

<210> 52967
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-H12

 <400> 52967

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 ggaacttcgc tctaaacgac ccaggcttat ctgccttgc cttcatctac ataggcgac 180
 aaaagaacgt cctaccttca atcgactggc ctgccatcta ccgcatggac cctgataaaa 240
 cccttcagtt cctcacgtta atcatgctgg acttcattac tctttctgac gacgccttac 300

tatacaacag cccgccctgc tatgccatth acaacagt

338

<210> 52968

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H2

<400> 52968

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gaaagcaaga agaaatccca agtaggaatg caggcatggc acatgacttc acaggaacat 120

gccgctcctt gagccgtgat aggaatttca ctgaatcggc cccattctct agtatgagaa 180

tgagacctgg tcattcttct ccaggctttc cactccaagc atcacctcag ctatgcactg 240

cagcagttag ggaagcaaaa aaatggttgg aagagaaaag gcagggactg ggcgtaaaac 300

ctgaagacaa ttgatcatgc acattaaata caga 334

<210> 52969

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H3

<400> 52969

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<210> 52970

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H6

<400> 52970

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gcgggtgctt gatcccaaca ctggtaggac actaagaata tatcccttg aaactgtaac 120

tagatgcgat gtattagatt cctctattht tgcctthtgg tccaagagtt cggatggatg 180

tgaaggaaaa agaataaggc tgaaatcaaa cagctatata tccagcacca ttcttgacac 240

tgtcacagct gcgactgtgc agttcaagga gatgggtgaa agcagcattt caagaagtag 300
 agcaattgct gatgcatcca aacccgctga gcagcaaaat gagaggaaga aaaattttctt 360
 gatcggagga atttaaattg 379

<210> 52971

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H7

<400> 52971

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 cgccggcgcc gctggtggac gcggcgagc tgggttcgtg gtcgctgtac cgcgcggtga 180
 tcgaggagtt catcgcgacg ctgctgttcc tgtacgtgac ggtggcgacg gtgatcgggt 240
 acaagcacca gacggacgcg tctgcgtcgg gggccgggtgc ggacgctgcg tgcggcgggc 300
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<210> 52972

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H8

<400> 52972

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 tgtttgctgt aatttctccg aaccaagtaa ttggtagttg cttgtactcc ggaactaaat 120
 gctgccatcc taaatcaatg cgaagagtac atcaagcctt ggataccctc ttatactgcc 180
 atcgtacgcc agtgtgtgtt gcgacaaggc gagagatgtg ccaaataggg acatgaact 239

<210> 52973

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A12

<400> 52973

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catatcacat aaacctgacc attatataaa atacttacc ccaaaaccat ctaataacta 120
caatacatat atacatattc ccatctaatt caaaacaccc ttcttcaa 168

<210> 52974

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G4

<400> 52974

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gggaaacata tggtgaatta cctatgatga gatgcataca gatgcagtgc ttccgcgaaa 120
cgaatattct tacataagcg agctacatca tatcagaatg atgaaagtca gcgatcatcc 180
tatgggcggg gcacctgctt gtcagtctgc gcatagctgt attatgtcct tgagcgccgg 240
cgactctggc tccatgggcc actgctgggt gtactcctct ggctgtata cagactcagg 300
gtta 304

<210> 52975

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A4

<400> 52975

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caaggcgctt aaagagatca cagccacaca cctcctcgca taccgcgctc aaaccacctg 120
ccgcgacccg tcagcaccat caacgaacca gtctggcgca gaaagtcgga caatccaaag 180
accgcctaac atccaggacc atcccaatct tcagtccaag ccccg 225

<210> 52976

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A5

<400> 52976

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aacaatcaca caatactaaa gcactacttg cattaaacgc tcactacagg aaacatgaag 180
ttgacaaaga ttagcactct ctgcaaccac tttcaaacia caaataacat catgaacttc 240
tcattaaact cacttcttac aacgatcata tgaatgaaaa cccttaactt cattaccatg 300
ccaacaaatc tcatagcatc aactactccc tgaaacctac ttaatgaaaa atgtacta 358

<210> 52977

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A7

<400> 52977

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atactcatca gagcttcgaa gctttcaacc cggatcgctt ttctttcatg atctacccca 120
cccacaccgt gaacatcaac gccattattg atgcattcca cctcattaat cctcagacca 180
tgattctctc ccactacca cctcatataa catcaaagt atgccaccta aataatccat 240
ctat 244

<210> 52978

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B7

<400> 52978

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ttttcttaaa tggctctctc acaggattcc at 92

<210> 52979

<211> 398

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-E3

 <400> 52979

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 atcgcgccgg cagatcatgt gtgctatgtg cactgcagct tctgcaacac agttctcgcg 180
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 aatctactgt cagtgaacct gagagcactg atgcactcac tcccagaaca agatcatcag 300
 ctccaggaga acatcaaggt ccatggcatc aacggcactt tgcacgatga tcatcagtac 360
 tgcggccatt tggatcaact cggttcttct tcgtcgtc 398

<210> 52980
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-E4

 <400> 52980

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 agacttcttc atatgtcctt tctactctcc accctctact attcatctta tcctagtcca 120
 tacaccccta cgattctcct at 142

<210> 52981
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-E5

 <400> 52981

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 cgtcacatga gttctcctct ctactcactt gatttcatta ttcaactcat aatcaagttt 120
 gtggtgttaa gttttaagtt ttacaggatc acctattcac cccccctcta ggtgctctca 180
 attggtatca gagccgttct cttcaagaaa gggactaatc gctcgaagag atggatccta 240

tgggcaaggg gatggtgggc aatgataatg agaaggagtc cttcgtcaat gatccaaaag 300
attacaagcc tactgactcg ggctcaagcc acatatgaaa 340

<210> 52982
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E7

<400> 52982

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gagtaattta gaatactcac atcaacattc gtggccattg gccatgttc 109

<210> 52983
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F1

<400> 52983

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gggtcggagg ggcagggcgt ggcggacgtg ctgttcggcg actacgggtt cacggggaag 120
ctgccgcgga cgtggttcaa gtcggtggac cagctgcca tgaacgtggg cgacgcgcac 180
tacgacccgc tcttcccgtt cggcttcgga ctcaccacca agggcacgaa gtgagtgagt 240
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agctcttttg ctttcgaatt ggttgggggt gactggcggc gagtcgtgta cgccggacac 360
attgcgcagc gtacgttggg ttgggatgtt tgcgtctggg aataacagtg atgcattctt 420
gagatgggtg cttgtagtgt gggtttgttg 450

<210> 52984
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-045-Q1-K1-F10

<400> 52984

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taccattgtc ttaatcgatt tgtggatttt gaagtctcct tttaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
taaaactttc taaat 255

<210> 52985

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F12

<400> 52985

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tgtatgcttg ttaccgtcat gtcttttctt tcaactactag gtcctatcca acatcgatgg 120
cttgcttctt tatcagaaca tgtttgaata aacgctattt ggtaaaaaaa aaaaaaaaaa 180
aatattataa aaaaaaaaaat acaacaagaa caaataataa aataaaaaaca tt 232

<210> 52986

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F2

<400> 52986

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gcaagaatta gtttcttaag ccctagatct gattcagtta gactgagtcc tacggcagat 180
gatatattgg gaggttcgat ctatgacct tcttactact cgtcactgtt cgaggatgtc 240
cgaaacaatg catgcaatca tcagggtgat aaacaaagtg gtagtaatga cagtgggttca 300
acatctgcag gccagacacc acgacttaaa tcttttgcta atgatgtgga atgtggacta 360
aaaagaccgt tgaactccta aggataaaac aacggggtca tcttggaacc taaatcctga 420

accaacggtt

429

<210> 52987

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 52987

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ggcgacagag cgcaatggag acgcgcccgg cgccttgcca cctcgaggcg gccgtgcccc 180

cgggctccgg ggctgcaacg gcggcgggcg cgcagcagga ggcacccgcg gcgaagaaag 240

tggcggagga ggaggatccg cgcctgcgct gggccttcgt gcggaagggtg tacgccattc 300

tctccctcca gttcgcgctc accgcggccg tcgcgggccac cgcgtgcctc gntccgccga 360

tcccgcgctt cttcgccttc ggcccccccg tcgtcgtctg gtccacgtac atcgcgatcc 420

tncgtgcccc ggtcatcgct atggtt 445

<210> 52988

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G1

<400> 52988

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gtacagtct 189

<210> 52989

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E11

<400> 52989

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aacaatctcc agccctatct atccttcact catcattaca aaccatcatc tcacatcacc 120
tccatcaact ctttccacct atcatcaacc a 151

<210> 52990

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G12

<400> 52990

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tgtgcaagct aatgggcggt tattttgatt accacagggg cggttacttc ataaaaggag 180
cgtatcttca cgatccaacg actgttattg cttcggtgaa cccatcgctg ctgacttaca 240
cagaacgcgt tgtgagggtg cagacagtct ggatcaccaa gggccttact gttttcgaca 300
acaccaagaa aaggtactga gagatcacag actcgtagtg gcatgccac cgtgaatgtc 360
gctatc 366

<210> 52991

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G2

<400> 52991

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aaggtgggca tttgtggaga acatgggtga gagccttcat cggttgcttt cttcgccaag 180
actgggctgg attacgtttc ttgctcccct ttcaggggtc cgatcgctag gctagctgca 240
gctcatgtgc ttgtctgagg ggctgccttc tcgttggcag cctgcttgtg gtgcatctgg 300
tgattaataa tactactatg acagtacat atgctctgtg aagagt 346

<210> 52992
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C3

<400> 52992

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agaagaatcc gctaggggcg agcccatag aagatggccc cgcacccgca ggaggacaaa 180
tcagatcggc acagcagcgg cgccggtgcy tcgaggagc aggaacggcg gccgtccaag 240
gcatggggaa tcctcatctt cggcctcacc ggcgacacca ccgccagttt cgctattact 300
caagttcgca aaagcatgga ctggttctac actcagttga ataaagtga gtcaacatca 360
tcttggactt ggaggtatac aagtaataac tcaagtcgtg gaagcttaat gaggaagcta 420
agaaaagtat ttatcagcga atgc 444

<210> 52993
<211> 130
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C4

<400> 52993

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gtgcctcttc tgcactcgtt gtgggcggtg gaccatgcca tcctcgccga ggaggagctc 120
ctattcatca 130

<210> 52994
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C7

<400> 52994

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gaggtgatga tgccaaaact cttgcagagc ttgggttcca gattggcgat tatctgagcg 180
tcgcgatcat gtaactgcag attggcgatt acctgagcgt cgcgatcatg taagccggtg 240
cccgcaatga gttccggtga ctgcaccgga tagaactgat gtgatgtaaa aaatgcattg 300
gttgcgacga gcaagggagg agtatctgtt agcgctagga agtggaacca aaactgtctg 360
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g 421

<210> 52995
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C8

<400> 52995
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gggccaccag caacgagtcg ctggagaatg ccttcgcctt ctacggcgag atcctcgact 180
ccaaggtcat caccgaccgg gagacggtga ggtcccgcgg cttcggttc gttaccttct 240
cctccgagaa ctccatgctc gacgctatcg agaacatgaa cggcaaggag ctcgacagcc 300
gtaacatcac cgtaaccag gccagtccc gtggc 335

<210> 52996
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D1

<400> 52996
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ggcggtcca tgatacaaca gatgcaacag ctttgcaatg agtgcaaggg gactggagag 120
agcatcaatg agaaagaccg ctttccatgg tgcaaggggtg agaaggatcat tcaagagaaa 180
aaagttcttg aggttcat 198

<210> 52997
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D11

 <400> 52997

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 aaaaacaaaa aaaaacaaaa aaaaaacaaa aaaaaaaaaa aaaaaaaccc cccaaaaaaa 180
 aactcaaac caaactaacc caacaatcca acacaaaacc ctttcaaaaa caacccccaaa 240
 acccaaacaa cccccaccca atc 263

<210> 52998
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D2

 <400> 52998

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 aaaactggac tgattaacgt tgatcgagtc ctgtactcat cagttgtata ctctcacaat 180
 tatggttacg ttccaaggac tctttgtgaa gacaatgacc caatggatgt gttagtcctg 240
 atgcatgaac ctgttggttac tggttcgttt ctgcgagcaa gagcaatcgg ccttatgccc 300
 atgattgacc agagtgaata gcatgacatg ataatagcaa tctgtgctga tgatcctgaa 360
 tatcgtcact acaac 375

<210> 52999
 <211> 152
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-045-Q1-K1-D3

 <400> 52999

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 gcggggcattc ttaagggtag cagctgcata cctgtaaagt taaaggccaa atgtgggttt 120
 ctgccttctt cagatttttt ttaagaagat aa 152

<210> 53000
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D4

<400> 53000

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 cccaagaccg cggagaactt tcgcgcgctg tgcacgggcg agaagggcgt tgggcaagtc 180
 ctgtaagccg ttccactaca agggcttcac gttttaccgc ttcatcccct atttcatgtg 240
 ccatggcagc gacttcaccc gctgcatctg ctcttgctgc aagtccatct actgctagaa 300
 gttcctcgac tagaagttcg tgcgcatgca cat 333

<210> 53001
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D5

<400> 53001

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 gcacgtacac ggtgcagatc aagacgagct gcgcgtcccc gcggagctcc gcggacgcgg 120
 tgagcctcgc gttcggggac gctaccgca acgaggtgta cgcggcgact gtgacgcctc 180
 ggcgcggggt cgagcgtgc tccacggaca cgttcgcgct cgccggggccc tgcggctacg 240
 gcgtctgcta cctctacctg cgccggtctg gccgctcggt cgggtggacg ccctagtggg 300
 tcagggtggt cgagccggct ttcggtgcgt ctctcacctt ttact 345

<210> 53002
 <211> 264

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D8

<400> 53002

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 atcgagtttt tgaacgcaag ttgcgcccga agccttctgg cggagggcac gtctgcctgg 180
 gcgttacgcc aaaagacagt gaaaaataaa tttgagattt caattacaat ttagatcaaa 240
 taatatagta atataatatg tgtc 264

<210> 53003
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B8

<400> 53003

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 cggcatggtg gcgccccggt ccaaggctga cgttggtgtt actatgcaag cgcagcggga 180
 cgtgccaccg gacatgcaat gcaaggacaa gttccttctg cagagcgcca ctttcgccaa 240
 ggaggtcgtg ccaaatgagg tcaactggaga catgtttacc aaagattcaa gcaatgtatt 300
 ggaagaagtt gaagtgaatg tagtttatgt agcaccatcc tcctttcaaa gcctatagat 360
 ttgaggattg taatctctgc agtttgagtt tt 392

<210> 53004
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-D9

<400> 53004

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tgggtggtggt gatggcgacg acgagcacag gcggtggcag ggcggcagcg gcgtgcgac 180
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 gctgctccac cctgcgtgcg caagaggcat gcttgtgcgt gtacgcaaaa gaccccaagt 300
 ttgcaaaata catcaacaac cccaacaccg tcaaaacctt tacctcgtgc ggcatagcca 360
 ttcccaaatg ctaaacaagc gctcttcgtc gtcgcttcgc ttgctcttgc ttcttggggg 420
 aacatattca gcttatgaat aaattatgtg gatcaat 457

<210> 53005
 <211> 408
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E1
 <400> 53005

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 gaagggcatg agatgaatga ggaaatgaaa actcttgatc gtgagctagc tcgtgcaaag 120
 gtttcagcaa ataggggttgc agtagtggtg gcaaagtgtg ggaaagatgg cgatgataaa 180
 gtaatgcctg ttaaacgatg gctcgaggag cgaaggattc tgcaaggaga aatgcagcaa 240
 ctccgggaca aacttgctat tgcagaaagg gctgcaagat cagaagctca actgaaagag 300
 aagttccagc tacgacttaa ggtactcgag gaaggattga gaatgtctac atcgagaacc 360
 aatgtcagtg gcacacgccg tcagtctatt ggtggtgctg attgtttg 408

<210> 53006
 <211> 455
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-045-Q1-K1-E10
 <400> 53006

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 cttcaggggac gggtttcata atagtctggt gctggcgctc gactgctttc catgcacgtc 120
 gaggtcggac gaggacgcag agacatgctg gccagtggct gcggccacag gcccacatcg 180

tgtggcacca gcgacgagga ggttgtagtc gagcagcgtg gcgcgggtgt cgttccgcgt 240
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ccaccaactc tctgactcta acgatcaatc gatctgcttt ggctagggag gtctcgattg 360
gtagatgcat gttgagtgtc tgcggtactg atgcggacng agcttgagag tcggattgat 420
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<210> 53007

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A4

<400> 53007

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gtgatggtga aagctctgct tctggcaatg cactggcagg tatctcatTT gcatccatgg 120
caccaagttc aggtcaccag gcgatgtcgt ccacatcaga ctacatcca gttttcccag 180
cactctcgct tctaccaggt tcaggtccag ggtcgatgac aaactttgtg cggTcaagta 240
ccagaatccc tgttgtcatg gcgagcgata caagcaccac gcttgaatcc atatgttcac 300
cacatcggtat gtggTccact gaacgctgca ccagcaggaa ttcaacaagc tagagctcat 360
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<210> 53008

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A5

<400> 53008

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gaggacgagg aagggTacc agcgttcgcy ctggtgaaca aggtcaccgg cgaagccatc 120
aagcactcgc tgggacagag ccaccggta cgccttTgtgc cctacaaccc cgagtacgtt 180
gacgagtcgg tgctgtggac ggagagccgc gacgtctggc acggcttccg ctgcgtgcgc 240
atggtgaaca acatctacct caacatggac gccttccacg gcgacaagga ccacggctgc 300

gtccacgacg gcaccaccgt cgtcctctgg gagtgggcca agggcgacaa ccagcgctgg 360
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<210> 53009
<211> 460
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-045-Q1-K1-A6

<400> 53009

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cacaacaagt gggcacacca aagaggacag caatgctagg aacatgacga tgaccaagac 180
gagggcatcg ggcaacatac ttgttagccg taatgacgac gggccatgct atctagattc 240
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cgtggcgagt tgtcaaccat catcatgaat tcatgatact gcggaacat catgatactg 360
cggagacaga ctgctagaga tgaggctagc tagatgctgg ttcacaaaaa tattatgtaa 420
caccceaaat ctccattnta agaaataaat aagatttttcg 460

<210> 53010
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A8

<400> 53010

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gaagaggaaa gcactacttg cattgaaggc tgaggagagg aaagttgaag ttgacaagga 180
tttgcagtct ctgcagccac tttcaaacaa gaaagaaaat gatgaagttt tcattaagct 240
gggttctgac aaggataaga agaaggaaaa tgctgagcgt gatgagcgtg ccaagaaatc 300
ggtgagcatc aacgagttcc tgaaacctgc tgaaggagaa aggtactact gcggccgtgg 360
ccgtggaaag ggccgtgggg attcgtgtgg tttt 394

<210> 53011
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A9

<400> 53011

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taaagaagtg cttggagcat tgccgtgggt gaaaggtgta ataaaggata tgctttcttt 180
ggatcttagt tggatgatcag aaaaatgttc taccaattca tgcattgtacc aaaggataat 240
ataagctgct caaaaaatcg tggtaatta gagttttttg ttggaaaaat gataacttcc 300
ttacaaacat ataccaaatt aaagagaccc tcttaatgca tgatctatct ttaataaaag 360
aacatattcc atagtaaaaa aaaaaaattt aatatatttt ttaa 404

<210> 53012
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B1

<400> 53012

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ctttatgatc acctaggaac tgccttgccct tgggtgcctga gtaatctcga atatatcgta 180
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tgctgcttgt tttcgccaac aagcaagatc ttcctaatac catgaatgct gctgagatca 360
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<210> 53013
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B10

<400> 53013

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cccattgttc ttttcacata ctataatcca attctgaaac gtggtgtggg aaacttcatg 180
tctactatca aacaagctgg catacatgga cttgtagtgc ctgatcttcc tttggaggag 240
acagcgttgc tgatgagcga ggccattatg cacaacatag agctggttca taccactct 300
catctttgca tgcaccactt gcacaaaatt tgttgcgtag ttgtgttgc atctgggtgc 360
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<210> 53014

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B12

<400> 53014

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agttcacatg caccaccatt acattactac ccttcacagc tcttcctctc tattacatca 180
cactctccta cttctaattc ctctccccac actccaacct caatttctac cacctcttct 240

<210> 53015

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B3

<400> 53015

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accgtgtaag gacatggccg tcgagcgctt gaagaccggg ttcgagcagt tcaaggccga 120
cgtctacgac aagaagccgg agctgttcga gccactcaag gcgcaccagt cgcccaagta 180
catggtgttc gcctgctccg actcccgctg gtgcccgctg gtgaccctgg gcctgcaccc 240

cggcgaggcc ttgccgtcc gcaacatcgc cagcatggtg ccgccctacg acaagaccaa 300
 gtacgccggc gtcggctccg tcatcgagta cgccgtctgc gccctcaagg tggaggatcat 360
 cgtggatcata ggccacagcc gctgcccgtg gatcaaggcg cttctcttcc tcgaggacgg 420
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<210> 53016

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B4

<400> 53016

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 ggatctcgag agcgtctgcc cggaggtggt gtcgtgcgct gacatcgtag cccttgccgc 180
 cagctatgga gtcctcttta gtggagggcc ttactacgat gtgcttctgg ggagaaggga 240
 cgggctggtg gcccaaccagt catgagccaa cagtggctctg ccttcgccgt tcgagcccat 300
 cgactccatc attcacaagt tcgccggcgt cgaccttaac acg 343

<210> 53017

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B5

<400> 53017

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 gagtgcgact atgggcagtt gagggttgtg ctgctctttg taagttgttg gagccccaat 120
 attgtgcagc acatattctc ccagttatcg taaatttttc tcatgataaa tcttggcgtg 180
 tgcgctatat ggtggcaaat caactgtatg aactatgtga agctggtggt actgaacca 240
 catggggtga tctggtgtca gcttatgttc gccttttctg cgacattgat gttgaattgc 300
 tgattgcagc tgcttgaaat gttcaaaatt cttgaaaatt ttaaaccac aaattgcaat 360
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<210> 53018
 <211> 325
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B6

<400> 53018

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 ccttgttcac catggtgttc gaaaccgaca ggctaaaggg ctccacgctc gtcacaaacg 180
 gaatggtcac ggatgggtca gactaatggg cgatctacgg cggaaccggg gtgttcgcca 240
 tggccaccgg tgtcatgaag agaagaaacc ttgccggcgg tagcaactac tggaaactctg 300
 acgagcttgc cctggaagtt ttctg 325

<210> 53019
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B7

<400> 53019

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 gtgatgctcg gtgaaatcat aaactacgtg cagtcacctac aatgacaagt tgagtttatg 120
 tccatgaaac tggccaccgt gaatccccag gtggacttaa atagcctgcc taacgtcctc 180
 cctaaagatg tacatcagtc ttgtgggtcc ccacatttct cgctggagac ctcatagct 240
 tcgttgctcg acctcagcca gcctcaccat ggaagccctc ttggctgcat ggacaaccag 300
 agttgtatgc atccacttga cagcagcttt tgcctggcga taaatccgca gtattcattt 360
 ccttaacggg gttagcgatg catcggttta gttgcagcta atttgatgct tgtgtttatg 420
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<210> 53020
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A11

<400> 53020

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ccccgccggc catgtcgaag caaggaggga aggccaaagcc gctgaaggcg cccaaggccg 180
acaagaagga gtacgacgag acggatcttg catatctgca gaagaagaaa gatgaggaaa 240
aagcactgaa ggagcttaag gccaaaggcac agaatggcgc gattgggggc tcgggtctga 300
agaaaagtgg aaagaaatga gactggtcac ccgtctccaa tacctagagg atgataaggc 360
agctgtctat ctgtgttgcg ctttactaaa tgtgattgta acagtgggtac ctcttgtgtt 420
ctgtg 425

<210> 53021

<211> 141

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-G10

<400> 53021

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aaataatcca ggctgtacgt acatataaat acaacagtcc tcctcttct atcatntcta 120
cctaaattca attcgctccc c 141

<210> 53022

<211> 266

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-G2

<400> 53022

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aacagantct ttttaciaac gtgaatcaca tccatgntgn ccggctaaca tggatatat 120
tatctttatt gtcgtctcgc taacatgata aatacacata tttttcccaa atactgctct 180

gtcatcacga acccagacat gttcaaaagc cctaactcag acacatacgt catattctac 240
gaggccaaga tcaatattac cccata 266

<210> 53023
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-G3

<400> 53023

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ccaagcaaat ctacgcaca gaaacaccaa agccccagag gcccaaactc accacctccc 120
aatggagaac ggcgacgaaa ccctcgcttc cccacaggcc gccgccgaga cggacgcgct 180
caacggcggc gtcgcgagg aggagcaggt ccccatcacc caccgccaa agtcctacgt 240
cacgctcgcc gacgacaacc ccgtcctaa cggcgggcgtc gtgaaagagg aggagggcgg 300
tgccacacc accgcgaagt cctacgcagc tgtcgccgcc caaacggaga tcgaggacc 359

<210> 53024
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-G4

<400> 53024

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ccaactgctg gcaacataaa cgtcctcgtc atcgctgctc tgcgttcctt cgtaatcctt 120
tgatcacctc aactccccat gacaatcttt tcaaaaacca aatcaacaga tatgattgat 180
tttagttaa acttggttta ccatgtattg agttacgtat agtgcgatag tatcacattc 240
ttttggcttg tgtctacagt tccagtagga gttaggatag aacacaggat gagtccatag 300
cccttttttt gcacgttcat aatgtactca taatgtacct ggtgggtgta ctgtgtacat 360
attaaatatg acttcaggat gtattgattt tataagataa ttgaataatg atgct 415

<210> 53025
<211> 335

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G6

 <400> 53025

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 gtacctagct cgctctgcta gcctacggag ngggtgatca ccaccggggt gcgacgggag 120
 gtggcggnng ctacggcgac ctccagcgcg gggcgggcat gcacggcgag gcgcagcagc 180
 agcagaagca gggcgccatg atgacggcgc tcaaggccgc gacggccgcg accttcggcg 240
 ggtcgatgct ggtgctgtcc gggctgatcc tggccggcac cgtgatcgcg ctacgggtgg 300
 ccaccctgt gctggtgata ttcattccgg tgctg 335

<210> 53026
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-G7

 <400> 53026

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 tgttttcagg ggcaagtttt gatttcaaatt tttaaactcg tgtttaagct ctcaaattca 120
 aacaaatgca gcaaacaaaa atataccagc atgagatgca aatacctaatt gttattagtt 180
 aatttactat cctatttttaa gcaaatgcct ttacacatgc aactcctaca ctaaaaaata 240
 ggcatttttg agaaaaatga tctctagtat attaaaatcc ctaagagaga gcttataaac 300
 atataattca acaaacggat gactggactt tatgtaaaga taaatttatt taatct 356

<210> 53027
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G8

 <400> 53027

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ggatcctaag gccaatgtga gctcttcgca gttctttgaa ttactgagtc acccaatcaa 120
agacttccat attgtggcca ttcattccaga tcacaattcg ttcattccttg ttcagcactg 180
gaaccagaaa ctggtatcat ataacatgga tactcaggaa ctgcatggtc tctgcactct 240
tggaagggc tatgtgatta ttaccccata tgttcctgt ttcttggagt catcggttct 300
tgccaccaa cactgaggtt gttgtttctg gggacttctc tgcattgtca acaagagcct 360
gatcatcaa gtgtggggca aggtgatcta gtctgatggt gctttaatgt ccttttgtaa 420
tgctttgaga aagctngtta caggacaaca tgggtagttc tatgatatat c 471

<210> 53028
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-G9

<400> 53028

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ttttccctcc gtatgtcct tgctctttct gcatgtgttg ctaacgcgac aattttccct 120
caatgtcac aagctcctat agcttccctt cttcccccac accttccatc aatgatagct 180
tcagtatgtg aaaaccagc tcttcagccc tataggctcc aacaagcaat cgcagcaagc 240
aacatacctt tatcaccctt gttgtt 266

<210> 53029
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-H6

<400> 53029

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cctccggcgg cggcggcggc gctggcgacc ggggtgtctt tccggcgagt ctcccccta 120
gtaacaagaa aatatggatg tacctgttga tgaccctgtg gagaacctca ctggaagtcc 180
tagtaccctt ggcaatgagg aagaagccac tacttatgct aatgtgcaag atcagtccaa 240
ggaagaacca gaaaagcttt acgaggaacc caaagaccca atgcaagacg agttgggtaa 300

ccaagggcat gtgagcatga acaatgaaga tgtgggagggc cagaacaaag tggaccaagc 360
tacccccaca gagcacggcg aggaagctgg ggtgaagcaa catgatgc 408

<210> 53030
<211> 356
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-H8

<400> 53030

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ttaagtgggg gtcggaaccc ggttaacggc ggcagtgccg caattaagaa ccggctttta 120
acgacacggt taaccggttt cccttcgggt ttttttcaag tggcttgccg ccttggttcc 180
ggtgcttcca caccaagcgg ggacccttca tatagggtgt gagactacca aaactcgaaa 240
atgaacaagg gaaagatttt taagctagcc aagggttca gaggaagggc gaaaaattgc 300
ataaggatag caagagagag ggtggagaaa ggcgtgcaat attcatatag ggatcg 356

<210> 53031
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A1

<400> 53031

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agaggtgagg cgcggtgtcc gccgatctg ctctgccccg acgcagctgt tacgacctcc 120
tcagtctcag tcaggagcaa gatgggtgcc ggcggcagga tgaccgagaa ggagcgggag 180
aagcaggagc agctcgcccc agctaccggt ggcggcgcga tgcagcggtc gccggtggag 240
aagcctccgt tcaactctgg tcagatcaag aaggccatcc cgccacactg cttcgagcgc 300
tcggtgctca agtccttctc gtacgtggtc caccacctgg tgatcgccgc ggcgtcctc 360
tacttcgcgc 370

<210> 53032

<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A10

<400> 53032

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aagttgacaa tgccagttag aacgaagctt tttaaccata agcgacttat cagctcctta 120
cgaatccagc tcgctgtatc cctgcccagg agaagttcat caagctcctt gaaaacagcc 180
gatatgtacc tgtgaaacca ggcctttctg gattcatcct cctccgagac ctgcagccga 240
ctgatgctga agatcttgcg ctgaccgatg cccccacaac agtcgcatga agcaccggca 300
aactgcccc tgctgcaagc caacaagggc catgatcatc agccatggcc gttgacgatg 360
agccacagcc gtcacaacct tttagtaca cctcttgagc gaccgagcgt taccttttct 420
tattcgtttt ttttttgact ttttt 445

<210> 53033
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F9

<400> 53033

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aggttccaga gccccctggc gctttgccgt catctctgct tggatacgag gcactgacag 120
gttccctgga tgattttgga tttgaagatt atcttaacat gcctcatgat tctgacagtt 180
tccgtcaacc tgacatgcac catggaatgg aggttcgcct tggtttgtcc aaggaccta 240
tctgtcctag cttcaattga ggcagtaatg taattctgct gcaagttcac ctctcagtcc 300
agtacttcag tcaatagacc atattaagat ggtgaaatat gaaaactggc agcttgcatc 360
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<210> 53034
<211> 224
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-E11

<400> 53034

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ccgggggttcg ggttcgtggg tgagcggatc gagatggcgg cgtcngatgt tgagtaccgc 120
tgcttcgtcg gcggcctcgc ctggggccacg gacgaccact cccttcacaa cgccttttagc 180
acctacggcg aggtcctcga gtccaagatc attctcgatc ggga 224

<210> 53035

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E12

<400> 53035

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tccgcctttt ttataataaa aaggaggccc ccacaaaacc cttttttttc aaaaaaaaaa 120
aaaaaaaaaa attctcccat tctcttccc ccaacacccc gggaaaaaaaa attttttttt 180
ttttaccca aacacaaaaa aaacccttgt gtttaaacc aaacatttct ttttttctac 240
ccccccacac aaaaaacaaa cttttttata ttttttctc acacccacc taaaaaaaaa 300
aacaaaaaat ttctcccccc caaaaaaaaaa tcccccccc 339

<210> 53036

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E3

<400> 53036

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agcctccagg taaagatact ttctgaacag aatatgggtg ctgaagctat tgatagctgt 120
acagttatgg ccgcttgga tgggtgtgcca tctggagttt tgtgctaaca tgcattgtgat 180
ttgacgctgc aatgtgtact agcaacagac ttggttttct tggt 224

<210> 53037
 <211> 489
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-E4

 <400> 53037

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 gaccattatg agggcttaat ggatctatctt ggtaagaata gggagaaacg tcaagacggt 120
 gagaactcaa aaggtacctc gaagaaaaag gcgcgaacag aaccgccaaa ggagatactt 180
 caacgtactc cattaaatcg gaaggggtca gctcttgccg aaagttcaga taagacgggtg 240
 gacaaatgtg agatccatga tgagataaaa acaaatgtgg aacttgattt gtcagaatcg 300
 tgcagaactg ataatggcat tggtgccata cctgttcgtg cctattcata cggtaaaggt 360
 ttgccctatg ctctgaaaa ttggccacgt catggagaca tatggcactg gaaagttgga 420
 agcagggtt ctggagcagg ccattgggct gacaggtata ttatgccgcc atcccgtttt 480
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<210> 53038
 <211> 216
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-E7

 <400> 53038

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 attattataa ataaaaagga aaataaaaat ttatgggggg tgtatgtctt ataggacgac 120
 cacttcctat cccagcacct gatctactgt atatggcatt ccaacagcaa gagacgtgtt 180
 tcgtaacctg cagaagaggg ggaaacttct gttaaa 216

<210> 53039
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-F11

<400> 53039

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ggaactggcc gactactatg tagagaatcg gtttttcttg tctcagcccg gggctctgctg 120
cgtctggtgg tggatgaagg gagaaattcg tgagatctgt tccggatcaa gcgtgcgagc 180
tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt 240
ctaagggtgg caaaaagtct aacagtagtc ggtctatgat gtatgaaagc tcccttg 297

<210> 53040

<211> 294

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-F12

<400> 53040

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cacccttatt caattctatt ctcccttncc ttttctctct tgctccattg tttaaacctg 180
gggagacccg caaatttatt tcattttacc taactttaac ctttttgcca cttttcaaaa 240
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<210> 53041

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F2

<400> 53041

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gacctgcgtg tgaggcctgg acgccacgtc cagctgacgg ttccgctgga gcagctgata 120
gaccggctgg tgaaggagaa cagggtggtg gccttcatca aaggatcaag gagcgctccc 180
cagtgcgggt tctcgagag ggtggtgggt atcctggaag cgcacgccgc ggatttcgtg 240
accgtggatg tgctcgacga ggagcacaac cacgggctga gagaaaccct caaggcttac 300
agcagctggc cgacgttccc tcaggcttct gtcggagggg agctcgtggg aggctgcgat 360

atcatttcgt ccatggctga gagaggggag c 391

<210> 53042

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F3

<400> 53042

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taccccggcc gcctgcaccg cgccttcgtc atcgacgcgc cctccctctt ctccgtcctc 120

tggaagggag tgaggccgtt cgtggagctg gcgccggcga cggcgggtggt gtgctccctg 180

gacttcgagg actcactgga ggacgcctcc ttcacggcgt acccgcggaac cgcgtccctg 240

cggttcgagc cgccgccggc ggcggtcacg gggaaggccg gcgtgggggtc agcctcgtcg 300

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<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-F4

<400> 53043

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gggtcgcgct ggttgccggg agctgggacg gaaagtactg ctgttggttcg cacggcgagg 120

cggcggcgga gaccggtcag aaggaatgtc ttcggcccaa atcgcgccgg cagatcatgt 180

gtgctatgtg cactgcagct tctgcaacac agttctcgcg gtgagtgtcc cggggaatag 240

catgctcaac atcgtgacag ttcggtgtgg aactgcgca aatctactgt cagtgaacct 300

gagagcactg atgcactcac tcccagaaca agatcatcag ctccaggaga acatcaaggt 360

ccatggcatc aacggcactt tgcacgatga tcatcagtag tgcggccatt tggatcagct 420

cggttcttct tcgtcgt 437

<210> 53044

<211> 381

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-F7

 <400> 53044

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 gtggacaagg ccaggcgcaa gctccgagcc ctcatcgccg agaagagctg cgccccgctc 180
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 ccattcggca cgatgaagca tcagtcggaa ttggctcacg gcgctaacgc gngctggac 300
 atcgcggtgc ggctgctcga gcccatcaag gaggagtcc caatcctctc ttacgccgat 360
 ttctaccagc tcgcgggagt t 381

<210> 53045
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-F8

 <400> 53045

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 ctatgtcaag acatggttca accagcccgcc ccgcaagcag aggcgccgca tcgctcgtca 180
 aaagaaggct gtgaagatat tccccgccc gactgctggt cctctacgcc ccattgttca 240
 atgccagact ttaaagtaca acatgaagtc aagggtggg agaggcttta cccttgagga 300
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<210> 53046
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C5

 <400> 53046

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 aaaaaaaaaa aaaaaataa aaggggggga aaaaaaaaaa tttttttaat atatagncca 120
 aaaaaaaaaa aaaaataatt ttttaactcca taaaactaaa acggccatgc tctaaataaa 180
 aaaaataaaa aatacccaac ctttctaaaa aaaaacaata aacaaatact aaaaaaaaaa 240
 tttataggga atccttttt 259

<210> 53047
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C6

<400> 53047
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 ctgttttaaaa ccatgccaat acaaaactca attttttaaa accacatccc tttaaaacca 240
 cctgcctaac caactaaaat ccccttacia atcacccttt ttaacaattt tccattataa 300
 ataaaaaatc caacccccct tttatttc 328

<210> 53048
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-C7

<400> 53048
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 caaagctggt aaggcaagga caggattgat gatctcgagt cttctactat ttctaaagtt 180
 ctttctact gctgaggagt ccattgaata ctataaccag aaaagatgtg tagatggaaa 240
 agggctgatt ctaccaagtc agattagata tgtgaagtat tttgagcgca tcttaactta 300

cttcaatggt gaaaatcagc caccaggag gtgtatgctt aggggggttc gtcttcatag 360
 atgcccctat tggattaggc catcaattac agtctctaac cacaatggtg ttcttttttc 420
 ta 422

<210> 53049

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-C8

<400> 53049

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 gtcagggttg gggaccttga actgttcagg gctgttgacg acaaatttgc aagcacattc 120
 agcgcagaca ggactcgtaa tttgattgtg aggctgcgcc ataatgtcat tcgaactgga 180
 ctgcgcaaca tcagcatttc ttactcaagg atctcccttg ctgacattgc taagaagcta 240
 agactagact ctgagaacct tattgctgat gcggagagca ttgtagccaa ggccataaga 300
 gatggcgcca ttgacgccac catagatcat gcaaattggc ggatgggtatc caaggaaact 360
 ggtgatgtct actcaacaaa tgagccacaa attgcattca actccaggat tgcgttctgc 420
 ctcaacatgc acaatgaagc ggtcaaggcg atgagattcc cccctaattc tcac 474

<210> 53050

<211> 505

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-D1

<400> 53050

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 ccaagcaccg ggggcgcgag ccggagccgg aggcctagta aatgaagacg ttcgatccgt 120
 ggcccgtctt cttccgccgg gagtggaagc gcaattggcc cttcctcacg gngttcgcca 180
 tcaccggctt catcatcact aagatgacgg ccaacttcac cgaggaggac ctcaagaact 240
 ccaagttcgt ccaggagcac aagaagcgct gaccaaccag taatctatga catggacgcc 300
 ggatggcact ggagagggga tgggtgtacg tgttgtccga attgcctgtc tggacagcca 360

gttatgttat gctgtttgaa tgaaaaatta gtttcttttt cttcatctaa atgcgtgcag 420
 cctatgctcc atctgtaatg taataagagg caactgactt gatccaaaag ctaccagctt 480
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<210> 53051
 <211> 60
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-D10
 <400> 53051

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<210> 53052
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-D11
 <400> 53052

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 attcatcttc ggattgtcct cagcaccaat ccagtcattt tcgcaacgtt taccgcaaag 180
 accgctacct tgggcaccag ttctgtgatc cagttgaact ggcacgcacg cctgagttat 240
 caagcatcag tgggtcgaag acagaaacgt ctattggtgc a 281

<210> 53053
 <211> 143
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-D3
 <400> 53053

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 ggggggtttct tttacggggt cgaaaaacac ttttccgata aatcaatcta ataaaaaaca 120
 atcgatatat ttaatacatt aag 143

<210> 53054
<211> 480
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D4

<400> 53054

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agatgaatga cgccgatgta tccaagcaga tccagcagat ggtgcggttc atccgccagg 180
aggccgacga gaaggccaac gagatctccg tctccgccga ggaggaattc aacattgaga 240
agttgcagct tgttgaagct gagaaaaaga agatcaggca agagtatgaa cgcaaagaga 300
agcaggttga agtacgcaag aaaattgagt actctatgca gttgaatgct tctcgcatca 360
aagttcttca agctcaggat gatctagtta acaaaatgaa agacgatgcc atgaaggaac 420
ttctccttgt cagccacaac caccatgaat acaagaacct ttgaaagac ctaatcattc 480

<210> 53055
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D7

<400> 53055

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cgacaaagag gaaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggggg ggccctttta 180
aaaaaatcaa acttaactaa cccttaattc caaataaaaa ctttttttaa agggcaacta 240
aaataaaatt aattgccctt ttttaaaaaa ctccgaaatt ggaaaaacct tgcgttaacc 300
aaattaaatc cttttaaaga aaatcccttt tttccaactt gggttaac 347

<210> 53056
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D8

<400> 53056

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gggccttagg agaaggtcat gataattatt ttgtatctac catagtagtt gtttgatata 120
gacgcctctc tctctctctc tctctctctc tctctctctc tgttattact ttatatatttt 180
gttactgtcc ttccatttga atctatagga tgggtcaaagt ggctgatgaa agaggagaaa 240
gaaacaaaac agttggtttc ttgttacttg taagtgggta aactgaaata caaatggatg 300
taagattgaa tga 313

<210> 53057

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A7

<400> 53057

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cccatctcgc gggcatggga gacccacccc gcgcggggag cagccgggct cgagatcgca 120
cccgtcgcgg tgcgggcca agcgggagct gtccgcgtat attggcgcgc gacgacccac 180
gcggggggcg tggaacctcg ggcacgcttc acgtacggcg ccgaccgagc gaccccgcg 240
gcgcaggcga gctcgcgcgc tcagtcgcgc gcgcgcgcgc cgctc 285

<210> 53058

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A8

<400> 53058

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gatgctgtgg aggcaagcac tgtgaagcgt gttgcaaacc gtttcattct tgatcaggat 120
gttgctattg ctgcgatggg gccgatccaa ggacttccag actacaactg gttcagacgc 180
cggacctaca tgctccgtta ctagattaat cagccggtgt acccatgttt accgtctgca 240

aaagacaaga taaaatttgc ctcttttagc gtcagtatat taaggcctca gcactgcaca 300
 ttacgtgctg cgatggagga attttttgag aatttgtttt atttcttgtc gtgtccaaaa 360
 tccacaaatc tgtcaataat gataggcaag ttcgactgac gt 402

<210> 53059

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B10

<400> 53059

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 aaggaatgga ttatgaatga tctgcgcgca tacnaaccaa aaangaacag ttaaataagg 120
 gtttttgaga gttcagatga gatttcaacg gatctttctt agtgtatctc acaagtttca 180
 gatanttctt tcaaagaaag gagatacttt accatcgctt tatctggagg tcccctagtc 240
 agtttttttg ggaaactttg tgaatctcca tacaacaaga cacttgattt gtccaaattg 300
 tacatcttct ggtcttatga acgttctttg gcaaaaaacc attcatagag taactatatt 360
 ttaacaaaaa aaggattcct ctccaaggta cctattctta atgtccatgt ttactccata 420
 aattacaat 429

<210> 53060

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B7

<400> 53060

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 aatacaaaga aaaaccatnc tatacaacag taccctttat cttcgtaccg accagaatca 120
 aattgcaatg ttcaaagggtg ttccctttac tacatcagct ggcccatgta tatcttcgat 180
 tcacaacgga aatgttaagt gaccacctca ttagacatgg ttgcatacat tgacatcaaa 240
 cttatgcatg ctgtctgtgt accattttgt catacatcat gttttgcca tatttagcgt 300

tgcaaaattt gaacacagtt acactatctg taagcaattt tctactaatg gttggcccat 360
agtttgc 367

<210> 53061
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-C1

<400> 53061

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cgtggacgcc ggtgccgttc ccgccgacgg cgccttgcct ctggctgcac gacacgcact 120
cggttttctg gcgggggagga gacgcgtgga cggcggcgga gaacaaactg ttcgagaagg 180
cgctggcgca gatcgaccgt aacgcgcccc acaggtggga gaaggtggcg gaggtggtgc 240
gcacgaagac ggtcgacgac gtgaggaacc actaccacga cctggagaac gacgtcggct 300
tcatcgaggc cgggctcgtg ccgttccccg actacagcgg ctcggttccg tcgttcgggt 360
tcaccacga ggattgggac ggaggggttca agcgcggcta ctgccttaag cgcgcgcgc 419

<210> 53062
<211> 281
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-C10

<400> 53062

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tgctgcccc aaccttaa attttctcc tcctctctaa caaacaacta tctttgtctt 120
cgcttctcc cttctgaat ttactaataa tatataacat ccatttactg ctaacaacca 180
tttctcaatg acatcttcat tactcctcct tcttctactg ctacctctcc ttttgacctt 240
ttaaataact cttattattg cttctcaact ctttcatttc a 281

<210> 53063
<211> 363
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-G5

<400> 53063

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caagagtcga ctgaggaatg tntccaaagt gatcaaattt gggctacata tgatgatgaa 120
gatggaatgc ctggttatta tgcatttatt cagaaagttc tttccttgaa accattcaag 180
ctcagaataa gctatctcac atcaagagca aatagtgaat ttgggccttt gaattggggtt 240
tcttctggct tcataaagaa ctgtggtgat ttcaggattg gtaaatatga aagctgtgat 300
atagtcaaca tgttctctca ccagatgaaa tgggataaag ggccgcgcgg gcttatcaaa 360
att 363

<210> 53064

<211> 95

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G6

<400> 53064

caagcatcac cggcaggagc tctgggcagc gtgcgcacgt ggggtaccta tctcgctctg 60
ctagcctacg atggctgatc accaccgggg tgcga 95

<210> 53065

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G7

<400> 53065

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tgttttgaat gtcaagtttt gatttcaaatt tttaaatctg tgtttaagct ctcaaattca 120
aacaaatgca gcaaacaaaa atataccagc atgagatgca aatacctaatt gttattagtt 180
aatttactat cctatttttaa gcaaatgcct ttacacatgc aactcctaca ctaaaaaata 240
ggcatttttg agaaaaatga tctctagtagt attaaaaatcc ctaagagaga gcttataaac 300

atataattca acaaacggat gactggactt tatgtagaga tcattttatt ttaatctgta 360
ttaggaacat gtttattttg ggaaatgtaa cttcagaagt atggagattc ttt 413

<210> 53066
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G8

<400> 53066

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ggatcctaaa gcacaatgtg agctcttcgc agttctttga attactgagt cacccaatca 120
aagacttcca tattgtggcc attcatccag atcacaattc gttcatcctt gttcagcact 180
ggaaccagaa actggtatca tataacatgg atactcagga actgcatggt ctctgcactc 240
ttggaaaggg ctatgtgatt attaccccat atgttccttg tttcttggag tcatcgggtc 300
ttgccaccaa aactgaggt tgttgtttct ggggacttct ctgcatgttc aacaagagcc 360
tgatcatcca agtgt 375

<210> 53067
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G9

<400> 53067

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caatgctcac aagctcctat agcttccctt cttcccccat accttccatc aatgatagct 180
tcagtatgtg aaaaccagc tcttcagccc tataggctcc aacaagcaat cgcagcaagc 240
aacatacctt tatcaccctt gttgtttcaa caatcgccag ccctatcttt ggtgcagtca 300
ttggtacaaa ccatcagggc acagcagctg cagcaactcg tgctacctgt gatc 354

<210> 53068
<211> 332

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-H10
 <400> 53068
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 ggcaagggta tccttgctgc tgatgagtcc actggcacca ttggcaagcg cctttccagc 180
 atcaatgtcg agaacgttga ggagaaccgc cgtgccctcc gtgagctcct attctgctgc 240
 cctggtgctc tccagtacat cagcgggtgtg atcctcttcg aggagaccct gtaccagaag 300
 accaaggatg gcaagccttt tgttgatgtc ct 332

<210> 53069
 <211> 265
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-H11
 <400> 53069
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 tgtcaactta gaaaccctgc cctcggactc tatttgctgt gtcttaatac atacgggtatc 180
 tttcagaact gccaaaacca gagcagcctt gtgatgtcta gaggagctct ccgctcagtg 240
 acggcacatg agtgtgcact ataga 265

<210> 53070
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-H6
 <400> 53070
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 ttttcggcg agtctcccc ctagtaacaa aaaaatatgg atgtacctgt tgatgaccct 120

gtggagaacc tcaactggaag tcctagtccc cttggcaatg aggaagaagc cactacttat 180
gctaattgtgc aagatcagtc caagggaaga accaagaaag ctttacgagg aacccaaaga 240
ccaatgcaa gacgagttgt gtaaccaagg gcatgtgagc atgaacaatg aagatgtggg 300
aggccagaac aaagtggacc aagctacccn cacagagcac ggcgaggaag ctgggggt 357

<210> 53071

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-H7

<400> 53071

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tcagagattg gtttttcttt aattttggag gtaaatacata cgcattattg aggtcccagt 180
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caccocggca gcatcggctc cattgattga agttctctgt tttgttaatt aaccctggtt 300
aagaaaaaaa gaaggcgtgt tcgccgtgtc ggaattcttt ccttcctccc ctagtggttta 360
tttcaatatg atatcgatac ctgatgtact actgggt 396

<210> 53072

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-H8

<400> 53072

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cttagtggcg ctcggcacgc gggtgacggc ggcagtggcg gcaactcatga tcgggctctc 120
agcgacggca tcagcggttt cccctcccgc ttctctccag tcgcctcgcg ccctcgcttc 180
cggtcctccg cacaccagcc ggtgacctc catatagggt gtgagactac caaaactcga 240
aatgaacaa gggaaagatt tttaagctag ccaagggtt cagaggaagg gcgaaaaatt 300
gcataaggat agcaagagag aggggtggaga aggcgctgca atattcatat agggatcga 359

<210> 53073
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-H9

 <400> 53073

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 ggagctgtac gccaacgagg tgcccaagac cgcgggagaac ttccgcgcgc tgtgcacggg 180
 cgaaaagggc gtgggcaagt ccgggaagcc gctccactac aagggtcca ccttcaccg 240
 cgtcatcccc gagttcatgt g 261

<210> 53074
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-A1

 <400> 53074

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 gactcacttg tggagaagtt tgttacacct gaatcatctc anggagagtt ggcaagtcta 120
 gttgacaaag aagaaatata ttccatattt ttagagtttt tggatctctt tggatgatgca 180
 aagtcaatca ggaaagcttc aactcggcat acaacttttt tttcatgtaa gagaagcatt 240
 ctgccatcaa agaaacggaa ggctgatgat gctgttgtgt cagacaggga caagtttgct 300
 aaaactgggt ctgttcagtc agccacagga actgatccaa atgcttccaa tccttctgtt 360
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 gcatatcctg catatggaac ttatgac 447

<210> 53075
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-A11

<400> 53075

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ccatctcttc ggaacagcaa agctgtgcag caatggagaa gtataacagc ggcactcaat 180

ttgcaccatt gagagagact ccgtttgccc tcccgggggc tcttggtagt tcaagctcat 240

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<210> 53076

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A3

<400> 53076

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agcatataga gtaagattca cccctcatcc acatgctggt gataattggt gtatctatcc 120

gagctatgac tatgctcatt gcatggtgga ttctcttgaa aacatcacgc attcgctgtg 180

cacacttgag tttgacatac gccgcccttc atactactgg ctacttggtg ccttggtgct 240

ttatcaacca tatgtgtggg aatattcgag gctaaacata tcaaatactg tgatgtctaa 300

aagaaagttg aatcgacttg tgacagagaa ctgggtagat ggggtgggatg atccccgctt 360

gttgacactg gctggactcc ggcggcgggg agtatcatca accgcaataa attcctttat 420

ccgtggaatc gggataacaa gaagtgacaa cagcttaa 458

<210> 53077

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-G4

<400> 53077

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gtattgagtt acgtatagtg cgatagtatc acattctttt ggcttgtgtc tacagttcca 180
 gtaggagtta ggatagaaca caggatgagt ccatagccct ttttttgcac gttcataatg 240
 tactcataat gtacctggtg ggtgtactgt gtacatatta gatatgactt caggatgtna 300
 tggatttata agataatnga ataatgatgc tcg 333

<210> 53078

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E6

<400> 53078

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 ctttgttctt tgcttctgga acttgggcgc accacaatgc tcctgcgtat aaatccgtca 180
 tcttcataag cggttgtaaa ctctgaacca gctctttata tatctccatc agggccaaat 240
 cctcttatgg ttcaacctgt tccatttcca ggaaggctctg tccaaatggg tactttgttt 300
 tctagtctgg gttcacaagg atctgttcta catccgagag atgtttatat cca 353

<210> 53079

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F1

<400> 53079

tcccggtcga ccgcgcgtcc gcaatcctct gcaccacctg gaagacgcat aaaaactctt 60
 ttggacagaa gaagaagaag ctgttttgag ggagagggat ggcaaaattc actccacaga 120
 ataatgcgca aattccatgg attctgatac tagaacatgg ccgtgggtgtg tttcacagga 180
 cgcgccctgcc atctgatttg agggtaagt ggaggagcat gcagaggaag aagtgggcag 240
 gctactgatac ttacacgccc ccgcgcacgt agctgttgtg tctcatgcta aattactaac 300
 cataccttca tttctctgtg tccatctgca gatctgatgc cgttgacatg gaacactgac 360
 gtggtacttg tacat 375

<210> 53080
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-F11

 <400> 53080

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 ggaactggcc gagtactagg tagagaatcg gtttttcttg tctcagcccg gggctctgctg 120
 cgtctgggtg tgggtgaaggg gagaaattcg tgagatctgt tccggatcag gcgtgcgagc 180
 tcgggaatca ggggtttcac acatagcttc gtcgatttga atttgatgta ctaatggagt 240
 ctaaggggtg caaaaagtct agcagtagtc gttctatgat gtatgaagct ccccttggct 300
 acagcattga ggacgttcga cctgccggag gcgtgaagaa gttccagtct gctgcttact 360
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<210> 53081
 <211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-F12

 <400> 53081

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 aaaaaagagg gg 72

<210> 53082
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-F5

 <400> 53082

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 acaaaatctt gcacccaaan cacttctntt gttctcactt ctaaacttct tcttatacct 120

ttcatatata atgtcttctt cccaaatctc gccttcatat catgttttct atttgactg 180
catcttcttc aacacatttc tcaacttttaa tttccccttt aatatcattc tcaacatctt 240
tacagtttct tttttacact tctcatatct actttcattg aacctgatat cacttattca 300
ctcactccca taacaatatc atcatctcca atataacatc aatttccatt tcatcatctt 360
cactttcacg attatcatc 379

<210> 53083

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F7

<400> 53083

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tcgcaggctg cagccatggc gaagaactac ccgaccgtga gcgccgagta cagcgaggct 120
gtggacaagg ccaggcgcaa gctccgagcc ctattggcca aaaaaagctg ggcccggtta 180
atgctcggct tgggggtggaa ctccggggg 209

<210> 53084

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F8

<400> 53084

cccacgcgtc cggcgccgcc gccgcgtctc ctctgtaca ggtaaggaga ggaagagggc 60
gaaatgggta ggcacatcaa cgtcatcccc aacgggcact tcaagaagca ctggcagaac 120
tatgtcaaga catggttcaa ccagcccgcc cgcaagcaga ggcgccgcat cgctcgtcaa 180
aagaaggctg tgaagatatt cccccgccg actgctggtc ctctacgcc cattgttcaa 240
tgccagactt taaagtacaa catgaagtca agggctggga gaggctttac cttgaggag 300
ctgaaggctg ctggcatccc aaagaagcct tgctccaacc attggtattt ctgttgatca 360
ccggcgcaag aacaaatccc ttgagggact gcaggccaat gtccagaggc ttaagacata 420
c 421

<210> 53085
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-G10

 <400> 53085

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 aaaaatagga agttaattat tcatacatat aacatacata actcttatat aaaaaaacct 120
 aaaataaaaaa ttcgctggcc ctctttttac aacctaatta ctgtaaaaac cctgtcaata 180
 ccaaacttat tctttttgca ccccataatt catttcacta cctctcgta taaaaaatag 240
 gcccttaaaa aaccttcttc ccaacaaatt tacagccttt atggaaaatc ccactttccc 300
 t 301

<210> 53086
 <211> 305
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-G11

 <400> 53086

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 tcgtccgca cgccgcgggc tacggcgctg ccctcgccga cgcgctccgt ccgcccggcg 180
 ggctaactag ggagtcctcg cccttcgagc tcccccttgg aaagtacggc ctgcacggag 240
 agaaggcgtg cgccgagctc ctgagctttt ccgattccag tggctctcca caggtagacca 300
 ttttt 305

<210> 53087
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-G12

 <400> 53087

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 ctgcctggg ccacggacga ccactccctc cacaacgcct tcagcaccta cggcgaggtc 180
 ctcgagtcca agatcatcct cgatcgggag 210

<210> 53088

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-G2

<400> 53088

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 tattttccca atactgtttg catctcgaa cagattgttc aatatcccaa ctcgacacat 120
 acgtcatatt cggc 134

<210> 53089

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-G3

<400> 53089

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 cgctcccc acggccgccc ccgagacgga cgcgctcaac ggccggcgtcg cggaggagga 180
 gcaggctccc atcaccacc ccgcaaagtc ctacgtcacg ctgcgagacg acaaccccg 240
 tcctaacggc ggcgctcgtga aagaggagga gggcggtgcc cacaccaccg cgaagtccta 300
 cgcagctgtc gccgcccag ccgagatcga ggacctncgc gccgccaagc tcgacctgga 360
 ggagaagctc gctgaggccc gccgtgagaa caagtccctc gccgaggaga cgcaccgcag 420
 cgaggggata tt 432

<210> 53090

<211> 464

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E5

<400> 53090

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actgattctg caagacgaag ggacattcaa agtagtgcag ttgcacggg ttctctatctt 120
cagaaccttg gttctttgct tctggaactt gggcgcacca caatgctcct gcgtataaat 180
ccgtcatctt cagaagcggg tgtaaaactt ggaccagctc tttatatatc tccatcaggg 240
ccaaatcctc ttatgggttca acctgttcca tttccaggaa ggtctgtcca aatgggtact 300
ttgttttcta gtctgggttc acaaggatct gttctacatc cgagagatgt tgatatccat 360
gtccgcacaa gtgggtccgt gcctggagcc agtactaacc caagtgattc agctgggtgcg 420
caagcgcatac aaaatgtgaa taggccagga gatgcttgcg atgc 464

<210> 53091
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-C8

<400> 53091

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gtcagggggg gggaccttga actgttcagg gctgttgcag acaaatttgc aagcacattc 120
agcgcagaca ggactcgtaa tttgattgtg aggctgcgcc ataatgtcat tcgaactgga 180
ctgcgcaaca tcagcatttc ttactcaagg atctcccttg ctgacattgc taagaagcta 240
agactagact ctgagaacct tattgctgat gcggagagca ttgtagccaa ggccataaga 300
gatggcgcca ttgacgccac catagatcat gcaaattggc ggatgggtatc caaggaaact 360
ggtgatgtct actcaacaaa tgagccacaa attgcattca actccaggat tgcgttctgc 420
ctcaacatgc acaatgaggc ggtcaaagcc atgagattcc cccctaata 468

<210> 53092
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-C9

<400> 53092

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gaaaaagggtg aggggaactta gtcagtcacg tgcagtgaag gctattcaag gcagatttca 120
aacaccacgt agcaaagtca tttggcagac agctattgct tttgtcttgc ttggagtgc 180
tacccttgct ttccctaccg aagaagggcc aaccctccag gtggccatct cttgtgcagc 240
aaatatctat ttcatttatc agaggggtcaa aagtggatgg cgagcattct tttatgggtt 300
tggttctttc tttgttctct ggttccttgg caccttcttg atggtatc 348

<210> 53093

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D10

<400> 53093

tcccttgcac ctgccccgcc gagcggatcc cgcccgcttg tcatgtgagt ctaatatccc 60
gttctcacac gcc 73

<210> 53094

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D11

<400> 53094

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acaaggggca ggtgctacgt acttcacca gaccactaaa aggcagtga gcataggct 120
attcatcttc ggattgtcct cagcaccaat ccagtcattt tcgcaacgtt taccgcaaag 180
accgctacct tgggcaccag ttctgtgatc cagttgaact ggcacgacg cctgagttat 240
caagcatcag tgggtgcgaag acagagacgt ctattggtgc atcagtgagg acaagctcat 300
ctcctgaaga ggtcgatgga tcgggcgaac tttcagcctc tgtcagcaac gcaagtgcg 360
aagagagggga atgggtagaa gaggacgagc ctggcggtga tattactatt cgagc 415

<210> 53095
 <211> 491
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-D6

<400> 53095

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 gtcctcaacg tcgtgcagat gatcgcggtg cgggtagacc tgtaccagga cgccatcatg 120
 tcgccgttct ggaacttcaa cgcccacagc gccatgtacg gcatcagggg cagtgaagg 180
 gtccaggtcg ccagcgacaa cgggaccacg gtgttcgacg acgtgctccg tgcggtgcag 240
 ctgctcatcg taccctcagg ctacctcgtc gccaccaagg cgcagggaga aggcttccag 300
 tacatcgctt tcgagacgaa ccctgacacc atggtcagcc acgtcgccgg gaagaactcc 360
 gtctgagcgc acttgccggc cgnctcatc gccagctcgt atgccatctc catggaggaa 420
 gctgcagagc tcaagaacgg tatgaagcat gagctggctg tgcttactcc tgctggcagt 480
 ggcagctacc a 491

<210> 53096
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-D7

<400> 53096

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 cgacagggag gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gggcccgttt 180
 aaaaaaacia aagttaacta acccttgaat caaagtaaaa acttttttaa aagggaaca 240
 aaaataaaat aaatggcccg cgttttaaaa acttggaac tgaaaaaacc cggggttaac 300
 aaaattaaat cgctttgaaa aaaatccctt tttcc 335

<210> 53097

<211> 353
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-D8

<400> 53097

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gggcctgagg gtaaggatcat gataattatt ttgtatctac catagtagtt gtttgatatc 120
gacgcctctc tctctctctc tctctctctc tctctctctc tggtattact ttatatTTTT 180
gttactgtcc ttccatttga atctatagga tgggtcaaagt ggctgatgaa agaggagaaa 240
gaaacaaaac agttgggtttc ttgttacttg taagtgggta aactgaaata caaatggatg 300
taagattgaa tganaaaaaa acaantacaa naaatacaaa anaatataat taa 353

<210> 53098
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-D9

<400> 53098

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tagagcggcg gctgcagaga aaagattcca aaaaggatgg aatacactca gggaagaagg 120
gcgttccatt caacacgagt tgcgtgagat tagtgatatt gaaaaccaag cagtaggtct 180
gaagggaatt cttgatcagc ttcccagagc acatgcatct gaatttcggt cgaagatgtc 240
tggcctagct tctcagggta agaaggagaa gcgagtgtc aacgccgccc tcacgaagat 300
tgtgaactac ggtgtcccca tctgactgcc actccagcca gttgttctga aggtccattg 360
tattgtatca aatttttgtg aaagaagaca tgttcgatgt gt 402

<210> 53099
<211> 236
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E12

<400> 53099

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 taatactttt tcttcaactca ctccacaact tttttatatt tttctttaag aacccccaaaa 120
 ccaaaatcat cctcgatcgg taaacgcaaa aatttttttt tttttagttc gggaccttaa 180
 tacacacacc atttttatatt tttccccctc gcccgcataa aaaaaaaaaa acaaaa 236

<210> 53100
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-C7

<400> 53100

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 tgccagagtg cgctactcat ggttgaagga ggatatagaa aatgtggtgg ttgtccattg 120
 caaagctggt aaggcaagga caggattgat gatctcgagt cttctactat ttctaaagtt 180
 ctttcctact gctgaggagt ccattgaata ctataaccag aaaagatgtg tagatggaaa 240
 agggctgatt ctaccaagtc agattagata tgtgaagtat tttgagcgca tcttaactta 300
 cttcaatggt gaaaatcagc caccagagag gtgtatgctt aggggggttc gtcttcatag 360
 atgcccttat tgga 374

<210> 53101
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B1

<400> 53101

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 acctttgcgc tgtacgtcgc gaccacacg cctacgaccg actcccaagc ggccgacctt 120
 gagacactcg gggggctctt tgacacacgc ctgtcgtatg atcgctcaca tacgctcat 179

<210> 53102
 <211> 281
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-B10

<400> 53102

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gaagcaataa cttgatattg ggttctaaac caaagaaaga antgggtata aaatcatctg 120
ccacatacna nccaaaaaag aacaatgaaa taaagggtttt tgaaaattca aattaaattt 180
caacggatct ttcttaatat atctcacaaa tttcagtatt ttctttcaaa aaaaagggat 240
acttttccat ccccttatct tgagggtccc taatcaattt t 281

<210> 53103
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B12

<400> 53103

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ctctccgcgg gagcagatcc tctccgctcg ccagcctccc cctcctgctg ctgcctcctc 120
gcttcaagca acacccgaag cggcaacaac caccaccacc accaccaccg gacctggctg 180
agcgaccctt tggcttccca ctccactgaa gcaaggcgag agagagtaaa gaagaggagg 240
agaagccatg gcgagcga 258

<210> 53104
<211> 304
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-B3

<400> 53104

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cccacgcgtg cncggcatta aaacttattg ttgaaaaaaa aaaacaaaac aaaaaaaaaa 120
aaaaaacaaa aacacaaaaa aaaaaaaaaa aaacaatcct ggacacaaaa caaaaaggct 180
aaaccaccac gcactactat accgggcgcg aactcaaaaa aatccaaacc tacaatcgcg 240

ctgatggcaa atcatacttt ttgtatgggt cgctaaaat taaatcacct gcccccttt 300
taaa 304

<210> 53105
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B5

<400> 53105

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atctgatctg gcggattgtg aggaagaaca actccttctt ggtgaagcag tttggcaacg 120
gcaatgccaa ggtgcagttc accaatgagc ccaacaacct ctacaatgta cactcctaca 180
agtactctgg cttagcaaac aagaaaactg taacgatcca gccagctgct ggaaaggact 240
cggctgtggt cctctctact accaagacca agaagcagaa cacacccgcg aagc 294

<210> 53106
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-B6

<400> 53106

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catataggct gcaggaagca atcgagcaa gcaacatacc tttatcgccc ttgttgtttc 120
aacaatcgcc agccctatct ttggtgcagt cattggtaca aaccatcagg gcacaacagc 180
tgcagcaact cgtgctacct ctgatcaacc aagtagctct ggcaaacctt tctccctact 240
ctcagcaaca acaatttctt ccattcaacc aactgtctac actgaacctt gctgcttatt 300
tgcagcaaca actattacca tttagccagc tagctactgc ctactctcag caacaacaac 360
ttcttccatt taaccaattg gccgcactga accccgctgc ttatttgcag cagcaaatac 420
tactaccatt 430

<210> 53107
<211> 353

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C1
 <400> 53107
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 tgaggagacg cgtggacggc ggcggagaac aaactgttcg agaaggcgct ggcgcatatc 180
 gaccgtaacg cgcccgcacg gtggggagaag gtggcggagg tggcgcgcac gaagacggtc 240
 gacgacgtga ggaaccacta ccacgacctg gagaacgacg tcggcttcat cgaggccggg 300
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<210> 53108
 <211> 180
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C10
 <400> 53108
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 gccactcaaa aaaaaaccaa gttacttac acattcatgc tcccctccta acctttctat 120
 agtatcccct aaactcaact tactatcctt atttttaaaa caactatact tttaaaaccc 180

<210> 53109
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C12
 <400> 53109
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 tctcaagagt ggcagcggac tatgctcggc ctgtgaaaac ttcacgagcg aagccgtcac 120
 ttatctcggc aaggaacaga cacaggacag gatcatggag ttccttcacg atgcttgctc 180
 ccaatcattc tcctttgaac agaagtgtgt cgagctgatg gactcttatg cgactctcct 240
 gtttgccaag atcacggaga tcagaccgga agcgttctgc aaacggtatg gcctgtgcag 300

ggacacggct cttctctccg gtgtgggaag tgacagcacg tgtgtgttct gccaccatct 360
gctcgatgaa atcatgtcca aactgaa 387

<210> 53110
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-C3

<400> 53110

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tctagcaccg gatgcagcag caacccccct ccaatggagc tggcgaccga gccctcccaa 120
gctcctctct caccttggca agctctccca tggcgtctcc cctcctcta cggcagtaag 180
gaccgagaga tgatgatcga gccagtgatg tggtggtaac aacaaggcgc agttggtgga 240
cgtactgaag gatgatggac ttaaccagtg gatgctcgcc gagcaagtac ctcccccaac 300
aaacactatc taagtgttaa attaaaagta ctctctaaga tgtttggttg atggtgtgac 360
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<210> 53111
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-C4

<400> 53111

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cccgtctgct cntcngcggc ctgcctggg ccacggacga cactccctt cacaacgcct 180
tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240
cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg 300
gcatgaacgg caaggagctg gacggccgca acatcacctg caacg 345

<210> 53112
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K1-C5

<400> 53112

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gacgatgaag aagaacaact ataataagat ttgccctagc ctgtgttctc agttatctct 120
aanaaaaaaa aagaacacta aatacacaac accataaaaa cataaaagca aagacctcaa 180
gtacaaaatc atactaaatc gggatacgca gaggtaccgc cgattcggtt tcgccacctt 240
aattcacaga agatgogatg cggaacacca tctatgtcat ggacggccct gagctataca 300
accgtaacat caccgtaaa 319

<210> 53113
<211> 134
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-F10

<400> 53113

taaatcactt acatatataa aattttcata actttctatc atacatctac tctaatatgt 60
taatgtgtat ttttagatag cctgataatt actcttatac atattttaat atcttaactc 120
cttcatcaat cttt 134

<210> 53114
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-F12

<400> 53114

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tatgttgagc tagttattgc tagggtaaaa ttattttatt gaattttaat ttcttagccc 120
tgcgcaatct ttaggttggt atgcaaactg gtgatgctga gctggaaatg cgagggcgct 180

gcagtgctgg tcagaagttt cttgcttctc ttataatcag actagcactt gcggaaactt 240
tctgcctgaa ctgcggtata ttggcttttg atgagccaac tacgaatcta gatgggccaa 300
atgcagagag tcttgctgct gcgctgttga gaataatgga agccaggaaa gggcaggaga 360
acttccagtt gattgtaatc actcatgatg agagatttgc ccatcttatac ggtcaaagggc 420
agcttgctga gaagtactat cga 443

<210> 53115
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-F9

<400> 53115

tcccactcat actaaaataa caaaatttat gtatctatag aatcacaaat caatggtgaa 60
aggggggttct tataacagaa taatactcac atatacatat attcaaattt aattcattaa 120
aattgtgcaa tcttaaattt aattat 146

<210> 53116
<211> 345
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G10

<400> 53116

aatgatcacc cttccactag agaaaatggc aaccagagta gctgggtccc tctgcgtagc 60
tgactgggct tggggaggag atgattgtta gcagcatgaa gaagtatgaa gatagagcag 120
tagaactagc gctgaatccg gtgaagcttc aagcgctgac taacaagctc aaggaagttc 180
gtatgacctg cccgttgttt gatacagctc gatgggtgag caaccttgaa agggcatact 240
acaagatgtg gaacctttac tgctccagtc gccaccogga gccattcaag gtggtagagg 300
atgacaatga gtccccattt gaccgctaac gagatctcat cagca 345

<210> 53117
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G12

<400> 53117

gttctatatc tgctggagtt ggtctactac atttttgtcc caccatttca aattttaaga 60
tgattggctt ttctagatac attgcttcaa ctattgtatg tcgaagtga tagcaaatc 120
aatgtatcta gaaaaactaa aacgtcttaa aatggagggga gtattattat tcagaggggtg 180
ccgtggggga gtgggactat cctaaacgag tgaaataaca atattacatt tgatgccttg 240
ttatagcagt atgcaatata ttagtatact catagttgga gtagcgaacc atcttagagt 300
gagaaaactg tagccagcag aacagcattg tctacaaaga tgacaatttt gtttagctgt 360
gctccttttt tgtacctttt aagttgagac ctgatgc 397

<210> 53118

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G9

<400> 53118

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ggagaccggc gaagtgtacc gggggtcatt ggtcgagtgc gaggataact ggaattgcc 120
gctcgagaac ataaccttca ctgccaagga tgggaaggtt tcgcagctgg agcacgtctt 180
catcagagga agcagagtga gatttatgat tatacctgat atgctcaaga acgctcccat 240
gttcaagcgc ttggaagcga ggattaaggg caaaggatca gctattggag ttggtcgtgg 300
acgtgctggt gcaatgcgtg ctcggtctgc ttgtggtcga ggtggt 346

<210> 53119

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H10

<400> 53119

gagaagctgg cctttgtggc cctagactac gagcaggagc tggagaccgc taagagcagc 60
tcctccgtcg agaagagcta cgagctgccc gatgggcagg tcatcacgat cggcgcgagg 120

aggttcagat gccacagaggt gcttttgcag cgcgcgctga tcgggatgga agctcccggc 180
 atccacgaga ccacctacaa ctcgatcatg aaatgtgacg ttgatatcag gaaggacctg 240
 tacgggaaca tcgtcctcag tggagggacg accatgttcc ctggcatcgc tgacaggatg 300
 agcaaggaga ttac 314

<210> 53120
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H11

<400> 53120

cccacgcgtc cgcaagaacg tgcccatgct gaaggcaact gcctcaagat tgtttggccc 60
 tgtatttgat tggatagaaa catgggaaat gatatcaaga cttaagtatc ttggaactat 120
 gcttttcctg cataattttc agcaggcttt tacatgggtcc cttaagattg tgggtgctgc 180
 taagtctgct cttagtgttt tgacaaagcc aattgcggga ccaattctgg aggtttttga 240
 acttacgatg ccaatttgga acctttgtgc tgagacagta ggatatctga gttcagttgt 300
 catgttatct gtagaagtgt cttggagtgt agttattgat acagtggaga tgattgtctg 360
 gccattttgg tttggcttca gtactatggt tagcattgtg aattcaattc 410

<210> 53121
 <211> 238
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-H9

<400> 53121

cgactggggtt gctcgtgaag ttttcaacat tgagagtgat caaatcctta gctgcttgct 60
 tttgtctctc tattttctcc ttgtgtattt ttaagcgttt atccatgaac aaagtatcgg 120
 tactagggta ctactaaacc aaggatttta ggctgtttgg ctgaggttta aaaaaaatac 180
 ttactatact caaattaaaa ggccatgaac aaattgcaca tttaatcatt gagggtat 238

<210> 53122
 <211> 424
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-A10

<400> 53122

cagacgcgtg ggcggacgcg tgggttttgg tggactttta ctctccatgg gccttattgg 60
atttctcttg gggaggagcc ctgcgagtct tacctttggc gttgcacctg gccttgccat 120
attggccctg gctgtactta gcctcaatgt ctggaggagc gggaagtcca gcttaccgtt 180
catactggcg caagcaggca ttgccgctgc cgtagcatgg aagcacggcc aggcgtacac 240
cactacgagg aagctgcttc cgtggggatt ctacgtcgcg ctgagtgccg caatgatctg 300
cttctactcc tacgttcttc ttgccggagg gaatccgcct cctaagaagg cgaaggcgaa 360
ngcgaaggct gctgcttgat ttgatgttga aggcattcac cggagcgtct cataattgca 420
ctac 424

<210> 53123

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A12

<400> 53123

cccacgcgtc cgcggaagc ttccgactcc ataccccgca cagagcgcct ccctgcagat 60
gacctcggct gtggtggagc gcgtaaccaa cgacgaccgg agcgtatcct cgttgcttga 120
tccaacgctg ggtggagacc acagggaaga cgagctagcg gtcacggcg aggtgatccg 180
ggcctgcatg cagagcgacc cgaggcgaat gccgagcatg agggaggtcg ccgccaggct 240
gagggaggcc gtgggtatct cgccggtcgc tgcgacgccg aggctgtctc cgctctggtg 300
ggccgagctg gaggtccttt ccgccgcgga agcaagctaa taatagtggg cgagaggaca 360
ggacaggaac agggcatgat gatgtcgcgc aatctgacca gtttgttctc aagaaaaaaa 420
agccttgcat ccctttgtgc atgctgtaaa tgtgaatgt 459

<210> 53124

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-E12

<400> 53124

cccacgcgtc cgcggaacgcg tggtcggact cgtggggacg catcatcagg ggaagatgca 60
ggcgcgggccc gacccggaga aggacctggg catcgtattc tccacgttcg accacgacgg 120
cgacgggttc atcacggcag tcgagctcga ggagtcgctg cgccgactcg gcatcgagtc 180
gtccgcccgc gagggcgcgg ccatggtcac gcgcgtcgac tctaacagcg acaggctcat 240
cgacatccac tagttccgcg agctctacga ctccataccc aagaagagga tgcaccagca 300
ccccg 305

<210> 53125

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H7

<400> 53125

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa 120
aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaatgaa gaaacatcat 180
tttattagcc tagcagtaaa tccctaataa cgggagataa cgtaaaaatt atgaggttaa 240
gaacgatcgc gcttatcaac aatttgcgca gtttgaa 277

<210> 53126

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-A10

<400> 53126

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cggtggcggc ggtggctacg gcggcggtcg cggcggcggc ggcggttatg gtggcgggcg 120
ccgtgacggc gggttatggcg gcggtggcgg ctacggcggt cggcgcgag gtggcgggcg 180
cggctacgga ggcggtggcg gctacggcg tcggcgcgag ggtggcggtg gcggctacgg 240

cggcggtggc ggcggcggct ggagggactg atg

273

<210> 53127

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A12

<400> 53127

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ttaagaagga gacgcttagg atcgagcctg atgaagagtg ccctggccac ttntcgttg 120

ccttcacctt tgacgccacg gtcgctggca gcatgactgt ttacttggtt gcaaaggaag 180

agctcaactg caatctaaca gcagtgaaag aagacctaat gaagcccgtt actggtagct 240

tcaaagaggg tctgggtcaa aaattcaggc aaccttcagg aacagggatt gacttttcaa 300

tggttgaga atcagattat taaagcaggg ggacatggat ggatatccac ttgcagttaa 360

agctgaaaca acattgcttg ttgatcacc accagaaggg gatgaccaa agatgaaaac 420

tcctaactca cagat 435

<210> 53128

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A9

<400> 53128

gagcgcggcg cgcgagaggg agaacgacca ggaggggagg agatcgatcg atcgatcgat 60

cgagatagat ggctttcctc aacatggagc agcagacctg ggccttcacc ttcggtatcc 120

taggtaacat aatctcgctg atggtgttcc ttctgccgct gccgacgttc taccgctgtg 180

accgcaagaa gtcgacggag gggttccagt cgaccccgta cgtggtgacg ctgttcagct 240

gcatgctgtg gatcttctac gcgctgctca agtccggcgc cgagctgctg gtgaccatca 300

aacgcgtcng gtgcgtgatc gaggcggcgt accttgccgc gtacctggtg tacgc 355

<210> 53129
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-B12

<400> 53129

gcgagagaga tccggagcag ccgcagtccc accgaccccg ccgccggtcg cctcccatct 60
cctcgccgct gcctctcggt tctcttttca ataatacaaga tgagccgtgg tggtagtgcc 120
ggtggtggtc aaagtctctt gggttatctc tttggaaacg gtgagccccc caaaccagca 180
gtgg 184

<210> 53130
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C10

<400> 53130

cccacgcgtc cgggacgcct tccacggcga caaggaccac ggcggcgctc acgacggcac 60
caccgtcgct ctctgggagt gggccaaggc cgacaaccag cgctggaaga tcctgccctg 120
gtgaacgtga acagagacga gctagatgaa tccaaggaac cttacctagc tgctgccgcc 180
gccgcctaata tgcctcctct ccgctctagc tggttatctgt ctgtgtcttc gcgtcctcgg 240
ttcctgaatg gacgaataat atatagcatg catgtacggc tagcgaccat gtctgaatga 300
catcttcggt gctgctgctg ctgctactgc tacctgtccg tttgggggtc taaaagactc 360
tgatgagtgg ttctgaatgt ctgcatttca agtttgctgt gtgatgttaa tgtaccgtgc 420
gtaccagagc t 431

<210> 53131
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C11

<400> 53131

gagagcatca acaacaagct gcagctgctg atgaagagcg gcaagtacac cctgggctac 60

gagaccgtcc tcaagacgct gcgcaactcc aagggaagc tgatcatcat cgcaaacaac 120
 tgccctgcac ttaggaagtc tgagattgag tactacgcca tgctggccaa agttagtgtg 180
 caccatttcc acggaaacaa tgttgatctt ggcactgcct gcggcaagta ctacaggggtg 240
 tgctgcctca gtatcatcga ccaggtgac tggacatta tcagtaccac ccctggcacc 300
 cagtgcgcca 310

<210> 53132
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C12

<400> 53132
 gagagcatta acaacaaacc tgcaactgct gctgaagagc ggcaagtaca cactatgcta 60
 cgagaccttt cttatgacac tgggcaactg caaatgacag ctgat 105

<210> 53133
 <211> 246
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-C9

<400> 53133
 ccgattcgtc cgaagagtat gaacaacaag cttcaactgc tgatgaagag cgttcaagta 60
 caccctgggc tactagaccg ttgttaaaac tctgcgcaac ttcaaggtaa agctgatcat 120
 catcgcgaaac atctgtcctt cacttatgaa gtctgagatt gagtactaca ccatgctggc 180
 caaagttagt gtgcaccatt ttcaccggaa acaatgttga tcttggcact gtctgctgca 240
 agttct 246

<210> 53134
 <211> 248
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D10

<400> 53134

gtcaccaaat cattccagtc cctacatgaa gcatacaaag ggaaaattgt tgggcttgta 60
 gtatccacaa atgaggctcc atcatcctta ggatccataa ttgacgcacc attttaactg 120
 aacatttaag gacgggttaga aaaagcaggc aggactccag acttagcctt tgcgaactg 180
 gttcaaaaaa cctgggcttg aattacagga atcatcctgc tgggtcaaac tctaataggg 240
 gttggctg 248

<210> 53135
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D11

<400> 53135
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 gtacagaagg aaaaggacca cattgagggc ttgacactg aggtagcttg ggttactaaa 120
 tctgggaaat ctgacctgga agcaccgatt gcaatccgcc ccacaagtga gactgtcatg 180
 tatccatact tctgcaaag gataagaagc caccgagact tacccttgat gtgtaatcaa 240
 tgggtgtaatg ttgttagatg ggagtttagc aatccaactt ctttcataag gagccgtgaa 300
 tttctgtggc aagaggggca tactgctttt gcgactaaag aagaagccga tgaagagggg 360
 ctccaaatat tggaactgga caaaaggata tacgtataat ttttagcaat tccagtttcc 420
 aaaggaggga aaag 434

<210> 53136
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-D12

<400> 53136
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 gagttcgccg ggggcgctg gcggcagggt gccgccatgc cggccgcat gtcgcacgga 120
 ttccacggca cgcgccccga catcaactgc gtcagccacg gcgaccgcct catggtctgc 180
 gtcacctacg ccgaggccaa cgctgcttc atgtgcgacg tggccagcaa ccagtgggag 240

gagctgcccc agtacgtcaa tgctgacagc gagggccagcg agttcctggc cgcattctct 300
tcgagc 306

<210> 53137
<211> 600
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H6

<400> 53137

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cctcccgaga agcaaattgt gacggccaat cctgatatca atgtcgtgga gctctgcat 120
gatgacgact ttgttgttgt agcatgtgat ggcatttggg actgcatgtc aagccaacag 180
ctggtggatt ttatccacga gcgtataaac acggagagca gcctgtctgc cgtgtgcatg 240
agagtgtctg acagatgcct ggctccatca acgatcgctg gagacgggtg cgacaacatg 300
accatgatcc tgggtgcagtt caaaaaacct gtcgatcgga acaagaaggc cgaagcagca 360
gggcaatctg ccagcaatgt ggacgaagcc aagagtcgtg ttgctgagga gtgaagcatg 420
gctggcactc accagggcgc aaccatttgc tttcataagg caggtgaaaa aaaggaacga 480
agaaacctgc agtgtacgta tctcaactgt acgtggcatg ccatgcaaact cctgcctaag 540
ttaccccgga caatggcatt gcctagtga gtggtggatc ttcagatcac aacctttctt 600

<210> 53138
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-E11

<400> 53138

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ggtgtcatca agaaggcaaa cgtttcttgc ttgtgtcca aggtcaccaa agaaactgag 120
aaggttgtgt gcatggagaa ggttgtgtat gttgctgagc agtgaagag gccatttgag 180
catggcttcc agtgcggaag ctacaagggt ccagcaaact gatgatatcg caagagggaa 240
gcgcttgacg tagtcttttag atttcaattg ttgcagccga tcaaccttct tagggttgta 300

taatatgaag tcaatgttga gactaatgtg aggtgggaaa ggcctattga tgcacaaat 360
gtattatgag ctaat 375

<210> 53139
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F9

<400> 53139

gtccgattcc cggtcgaccc agcgtcgac gcgtcgaaat aacaaaatta tggatggat 60
agaatcacia tgaatctgaa acaggtctat acagataacg cacacatgta cataaaaaaga 120
atggaaaaat aaaagggcgg cgt 143

<210> 53140
<211> 544
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G1

<400> 53140

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gagtaagcga cagcgaagga gggagagggg gatggccggg atcgggccga tcaggcagga 120
ctgggagccg gtggttgtgc ggaagaaggc acccaccgcc gctgccaaga aggatgagaa 180
ggccgtcaac gccgcgcgcc gctccggcgc ggagatcgag accatgaaga agttcaacgc 240
tggatgaac aaggcggcgt ccagcggcac atccctcaac accaagcgcc tcgacgacga 300
cacagagaac ctgcgccatg agcgagttcc aagtgcctg aagaaaaatc tcatgcaagc 360
aaagctcgat aagaagttga ccaggcaca gcttgctcag atgatcaatg agaagccaca 420
ggtgatccan gagtatgagt cangcaaggc aattcccacc agcagataat tgcaagctcg 480
aaagggcctg gaacgaagct gcgtgcagaa taccagacat atacgaaaca ggaactgctg 540
tata 544

<210> 53141

<211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-G10

 <400> 53141

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 ctactggcct tggggaggag atgattgtta gcagcatgaa gaagtatgaa gatagagcag 120
 tagaactagc gctgaatccg gtgaagcttc aagcgctgac taacaagctc aaggaagtcc 180
 gtatgacctg cccgttggtt gatacagctc gatgggtgcg caaccttgaa agggcatact 240
 acaagatgtg gaacctttac tgctccagtc gccacccgga gccattcaag gtggtagagg 300
 atgacaatga gtccccattt gaccgctaac gagatctcat cagcagcccc gctctgtaaa 360
 taaggcgaga gttgtagaat atttagcatc gt 392

<210> 53142
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-G11

 <400> 53142

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 caacttggag ctgaacccat tcttagagat ggataccaaa tgctacttca ctggcggccc 120
 cttcgcaacg ctggacatga agtgctttct ccccggcagc ttgcagcata tgctggatgc 180
 acagcagcgc cagatgctcg ccaccgagct gaacctcggc taccaactgg cgccgtatgg 240
 ttctgacgct 250'

<210> 53143
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-G12

 <400> 53143

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tgattggctn ttctagatac attgcttcaa ctattgtatg tcgaagtgca tagcanaatc 120
aatgtatcta gaaaaactaa aacgtcttaa aatggaggga gtattattat tcagaggggtg 180
ccgtggggga gtgggactat cctaaacgag tgaaataaca atattacatt tgatgccttg 240
ttatagcagt atgcaatata ttagtatact catagttgga gtagcgaacc atcttagagt 300
gagaaaactg 310

<210> 53144
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G2

<400> 53144

gccaggtgta cgtactagta ctagtagatg cgtcacatac tatccagcta cgtactacta 60
ctagccggtg cacatcacta gcgatgactg ccatccacgg tagccatgcg tgcccaccgt 120
tgaagatggg tcaagtccgc caccagcctc gccgtgggtc agcgtatcaa gagcagcctc 180
agcctcgta gcaaccgccg aaggatccgg agcatgcacg tcttgaccga ctacggaagg 240
atgaagtgca tgacgctgtc gtacgtgtac gcgatgtcga cggacgagac gctgaagcac 300
gtggactagc tgctgagcga cgacctgatg cactaggtgg actacatgat gctcagctgc 360
tgg 363

<210> 53145
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-G3

<400> 53145

cgataatccg ccggcggtga gatgtgggtt tatcaggaac tcctatctgg cgacgaggct 60
cctgtcggat tcattcacct acaaggagct cgagaacggc gtnctgtggg aggtcgaggg 120
agagtgggtc acccaaggtc ctgttgatgt ggacattggt gccaatccat ccgccgaggg 180
tggtgaggac gaaagcgttg atgacacagc tgtgaagggt ggtgatattg ttgacacatt 240

ccgtctacag gagcaacctn cttttgacaa gaaatcattt gtgtcttaca tcanaaaata 300
catcaagaat ctactgctg tgttgaggcc acagaaagcg gatgagttca aaaaggggtg 360
cgaggggtgca accaagtttc tccttagcaa gctgaaggac c 401

<210> 53146
<211> 614
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G5

<400> 53146

gactctttcc gttgctggct tcagcatatg catttagatt tgtgggtgac tggctgaagt 60
ggctatacat ggatgtcact cagaaactgg aagctaaaga ctactcaaca ctgcaagaag 120
cccatgcctg tactgctggt ttgaaggctg tgacaacatc tgcaacagct gatgccattg 180
aagaatgtag aaagctctgt ggcggacatg gttacctgaa cagcagtggg cttcctgaat 240
tgtttgctgt ctatgttcct gcttgcaact atgaaggaga caatattgtt ctgcttttgc 300
aggttgcaag gattctaatt aagaccttat ctcaattgac atctggaaaa caacctgttg 360
gtacaatggc ttacatgggc aatgtacaat atctgatgca atgcaaattg gctgttaaca 420
cagctgaaga ttggcttaac cctgttgcca tacaagaggc gtttgaagcc agggctctca 480
ggatggcagt aaactgtgcc cagaacatag gccaaagcagc aaaccaagaa gaaggtttct 540
atgagcggtc ccctgatttg ctagaggctg cagtagctca catccagttg gtcattgtaa 600
ccaagttcat ttcg 614

<210> 53147
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G6

<400> 53147

ctggagatcc accactccac cagtccggtc catctgctgg acctcgattg gtttgggtctt 60
acctaggaac atccggggat gtcgactcct gcgaggaaga ggctgatgag ggatttcaag 120
cggttgatgc aggaccctcc ggccggcata agtggcgccc cgcaggataa caacataatg 180

ctgtggaatg ctgtcatatt tggacctgat gataccccgt gggatggagg tacgtttaag 240
ctgactctcc agtttaatga agaatatcca aacaaaccac caactgtgcg atttgtttct 300
aggatgttcc atcctaacat ttatgctgat ggaagcatat gcttagatat cctgcataat 360
cagtggagtc cgatatatga tgtagctgcg atactcacgt taatccagtc attgttgtgc 420
gatccaaacc cgaattc 437

<210> 53148
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G7

<400> 53148

ctttttctcc tccctgccgta cgtccgttcc agcttgcaaa gcgctcgca gctgctgcca 60
tggcaggcgc cgggtgcgcc gcagttcccc aggccggtcg cccagccccc aacttcgacg 120
tcacgtggtt gggcgccggc atcatgggca gctgcacggc gcacgcggcg gcgtctcgcg 180
gcgcccgcgt cctgctgctg gagcgcttcg acctgctcca cccgctgggc tcctcgacg 240
gcgactcccg catcatccgg gacgcctacg cgcagccgcg gtaccttcgc atggtgcgcc 300
tcgcccgtg cctctgggcc gncggcgagg cggaagccgg ctaccgctg ctcaccccca 360
cgccgcacct ctccatgggc ccgcgagca gcgcctcgct cgccgncgnc atcgctaaca 420
tcggtgccga ggaggtggac gtggacgacc ttcacc 456

<210> 53149
<211> 619
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-G8

<400> 53149

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tttgttcagt ggctccagaa agcagacata aaggaagact atattttgat ggcagagcca 120
gatcacataa ttgtcaagcc tatcccaaac ttgtcgagag atggtcaggc agcagctttc 180

cctttctttt acattgagcc taaaaaatat gagaatgtgt tgcgtaagtt cttccctgaa 240
 gacaaggggc caatcactaa gattgatcct ataggaaact ctctgtcat tattgagaag 300
 gaatctcttg gaaggattgc accgacttgg atgaatgttt cattagcaat gaaaaaagat 360
 cctgacgcag ataaatcttt tggctggggtt cttgaaatgt atgcctatgc cgtggcatct 420
 gctctccatg gagtgggcaa catcttacgc aaggacttta tgattcagcc accttgggac 480
 ttggaagttg gtgattcttt tattattcat tatacttatg gctgtgatta tgacatgacn 540
 ggtaagctga cttatggcaa aattggagaa tggagatttg acaagagatc atacacggac 600
 aaaccttcac ctagaaatt 619

<210> 53150

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-G9

<400> 53150

cccacgcgtc cgggtgaagt tgctccatga ggcagcgggt cacgtggtga cggaggagct 60
 caagaccggc gaagtgtacc gggggtcatt ggtcgagtgc gaggataact ggaattgcca 120
 gctcgagaac ataaccttca ctgccaagga tgggaagggt tgcgagctgg agcacgtctt 180
 catcagagga agcagagtga gatttatgat tatacctgat atgctcaaga acgctcccat 240
 gttcaagcgc ttggaagcga ggattagggg caaaggatca gctattggag ttggctcgtg 300
 acgtgctgtt gcaatgcgtg ctcgggctgc tgctggtcgt ggtgggtggc ctgttggacg 360
 aggtaacgcg cctcctgtga ggaggtagat tctaaatggc ggcttttctc gtctggc 417

<210> 53151

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H11

<400> 53151

cccacgcgtc cgcaagaacg tgcccatgct gaaggcaact gcctcaagat tgtttggccc 60
 tttatttgat tggatagaaa catgggaaat gatatcaaga cttaagtatc ttggaactat 120

gcttttcctg cataattttc agcaggcttt tacatgggtcc cttaagattg tgggtgctgc 180
 taagtctgct cttagtgttt tgacaaagcc aattgcggga ccaattctgg a 231

<210> 53152
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H3

<400> 53152

tttcgtcgta cacctcaccg gctttccttt gctccactct agcgacgcga tttctgtgct 60
 cttttgagat taaattatct tggactgctg ttgggtctgg cggcggctgg tggcataggg 120
 atggagaccg cagctgcgat ggtggagggc ggagtggggc ggtttttgtt ggccgccggc 180
 atgttcgcat ctctgccggc tgtcttacag gttggtcatt taaaaacctt t 231

<210> 53153
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H4

<400> 53153

cccacgcgtg cgcgtcgccg ttgttgctgt gactgcagcg ttggcggggc ttgtaccgac 60
 taaatgggac acaagcggcc ttattgttac cggaagagc ttccgcggaa gcagatccct 120
 atgatcaggt gccaaagagt cgttacaata ccggagaacg cacatggtaa ggcccaaggg 180
 aacgcacaag gccaccacag cctgactaca ttaaccacga gcactattac aactatagcc 240
 tcctgtattg catgctctaa acattgctag acaaatgcct gtatgcatca atgaacgctc 300
 gagaccggtg ccacaa 316

<210> 53154
 <211> 107
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E11

<400> 53154

cccacgcgtc cggatgatgtt cccagctaata ccaaagggtcc cttcttcgga tgcttgctga 60
 ggtgtcatca agaaggcaaa cgtttcttgc ttgagctcca aggtcac 107

<210> 53155
 <211> 101
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E12

<400> 53155

cccacgcgtc cggatacgct catacatgat catgtggcac actcatcaca ggactatcca 60
 tgcactacga gattccatta acatccttgg cacattactg t 101

<210> 53156
 <211> 623
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-E2

<400> 53156

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 cctctcgttt ctcttttcaa taatcaagat gagccgtggt ggtagtgccg gtggtggtca 120
 aagttctctg gggtatctct ttggaagcgg tgagccccc aaaccagcag tggcaccagc 180
 tgcaagtgtc ccacctgttg agaaaccatc tgctgcaaag actgatgcgg ccaagcaggt 240
 tgctgctggg gttaccagcc aaaccaataa ctaccacagg gctgatggtc agaacactgg 300
 caacttcctt acggaccgct cttcaaccaa ggtccacgct gctcctggcg gtggctcttc 360
 cctgggctac ctgttcgggtg gcaactgatg cccgtgctgg tgcgctcacc aaagttatcc 420
 tncctgcct gctgcgtgct atgtctgaat cgtgaacaac cgttgctcatt tcatgtgtgt 480
 acccgtgca atgctttgtg cgcgtggttg atttctctgt ggcaaacttn ccgtcctgca 540
 tgggggtgta agctgtctct aaatttcacg gcaagtcgtg tgccttgacc ttcattctaa 600
 aggtgtgtcg tattccttcg ctt 623

<210> 53157
 <211> 456

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E4

<400> 53157

cagacacagg aggacagatc gtctatatac tggaccaagt ccgtgcacta gaaaaggaga 60
tggttctccg tttaaagaaa caagggttg atgtttcccc aaagattctc attgttactc 120
ggctgatacc agatgcaaaa ggaacatcat gcaatcagcg gcttgagaga attagtggaa 180
cacagcatatc ttacatatta cgagttccct tcagaaatga aaatgggata ctttaagaaat 240
ggatatcaag atttgatgtg tggccatatac tggaaacatt tgctgaggat gctgctggtg 300
aaattgctgc tgaattacaa ggtactccag acttcataat tggaaactac agtgatggaa 360
atcttgtggc atcgttgcta tcttacaaga tgggaattac ccagtgcac attgctcatg 420
ctctggaaaa gactaaatat ccagattcag acatat 456

<210> 53158
<211> 661
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E5

<400> 53158

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cttctcgcgc gcctgctcca acgtctccgt cctcttcggc tgccctcggca tcgctttcaa 120
gttcgcggag atggactacg tcgccaaggt tgatgatttg gtggaggcgt ccaagtcaat 180
ttcaacattg ccttctatgg ttgagcgaga cattcagacc gacactgtca ggaaaccagg 240
gagccatata aggaatctgc ttagagtga ggcgcgggatt gatatgggta aagtcctgtt 300
tgagcaaatt cttgtcacag aaggcaactc actaagggat gcagcatcgg tggcttatgc 360
tcagggtctt gtcctcacc atggatgggc aataaggaaa gcagtttctg ctggaatgta 420
cgcccttccc tcaaagtccc agctgttgaa gaaattgaat gaagatgagg aatcagcaaa 480
ggttcaaagc cagaactttg tcaggatcgc aactccagta atctgctatg ttgatgaccg 540
tttcacctca aggaatttgg gcatagatcg gtgaagaaaa atatggatac gtttgtttga 600
tgtactaatc cagtcagatg gtgtgctgag tgagctgggc tcagaaaacc tttttccgga 660

t

661

<210> 53159
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E8

<400> 53159

gtcagctgct ggcgctgccg ccactgcttg ggcggggcggg acaacctgtg cgaggacatg 60
aagttcttcg ccaccccgcc ggtgcacggc tcgctggcga accaggtggt gcacccggcc 120
gacctgtgct tcaagctccc cgacggtgtg agcctggagg agggcgccat gtgcgagccg 180
ctgagcgtgg gcgtgcacgc gtgccgccgc gcggtggtgg ggcccagagac gggcgtgctc 240
gtggtggtcg ccggcctcat cgttctggtg 270

<210> 53160
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F1

<400> 53160

gggcggtgac cccgagaagt tcaaggagct cgcacaagcc tatgaggttt tgagtgatcc 60
agagaaacgt gagatttatg atcagtatgg tgaagatgcc cttaaggaag gaatgggcgg 120
tgaggatcc catgttgatc catttgacat cttctcatca ttttttggac cctcttttgg 180
aggaggtggt ggaagcagca ggggaagaag gcaaaggagg ggagaagatg tagttcaccc 240
acttaaagtt tctctggaag atctttacaa tggcacctca aagaagctct ctctttcgcg 300
caatgtcatc tgctccaagt gcaagggcaa gggctcgaag tctggtgcct caatgaggtg 360
ccctgg 366

<210> 53161
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F10

<400> 53161

aaaaaaaaa aaaaaataac aaaaaataaa tataaaaaag aatcacaaat gaagtccgat 60
aatagaagct aaggtcagac ctactcgagc atcctacata atatatattg taaagtgaca 120
tccaaaactc tattacactg gcacgacatt ttacaa 156

<210> 53162

<211> 394

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-F12

<400> 53162

cggacgcgtg ggttaaattct gattctgagg gtgctggcac tcgatcatatc agctaccgcg 60
tatgttgagc tagttattgc tagggtaaaa ttattttatt gaattttaat ttcttagccc 120
tgcgcaatct ttaggttggt atgcaaactg gtgatgctga gctggaaatg cgagggcgct 180
gcagtgctgg tcagaagttt cttgcttctc ttataatcag actagcactt gcggaaactt 240
tctgcctgaa ctgcggtata ttggctttgg atgagccaac tacgaatcta gatgggccaa 300
atgcagagag tcttgctgct gcgctgttga gaataatgga agccaggaaa gggcangaga 360
acttccagtt gattgtaatc actcatgatg agag 394

<210> 53163

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F3

<400> 53163

cccacgcgtc cgcccacgcg tccgcccacg cgtccgtgtc agttcagttc agttcagtgt 60
cgaatgaagt agtagtagct gttgtttgca ttggatctga caatgcatgc taataattat 120
ggtggtgtga tgggtcttggc cggtacgtgc gtagtcgtct acgtacgccg tgtcaacgtc 180
gtagatctct acgggaagat gataagactg taacatgcag ggcatgcatc tatttatact 240
taac 244

<210> 53164
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-F4

<400> 53164

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 tgccgtgcgt tggggacaag gaacctctct cctctttagc agctgagttt cagtctggca 120
 gccccatttt acaagagaaa attaagttgc ttggcgagca atatggtgct ttaagacgta 180
 cacgtggaga tggaaactgc ttttatcgaa gctttatggt ttcctacctg gaacacattc 240
 tagagacaca agacaaagct gaggctgac gcatcatggt aaaaattgag gaatgcaaga 300
 aaacactcct ctctcttggga tatattgagt tcacttttga ggacttcttt tcgatattca 360
 ttgaaactgct ggaaagtgtt ctgcanggac atgaaactcc tatagggcct gaagagcttc 420
 tagaaagaac cagagatcca caagtttctg attatgttgt catgttcttt aggtttgtca 480
 cttctggtga aattca 496

<210> 53165
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-F5

<400> 53165

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 ctcttggtac gaggcgcgagt ggggctacag caaccgcgtc gtcgacctga tccgccacat 120
 gttcaagacc cagtagagag agatatttct gcctccctat cgtgggtcgt cccaatggc 180
 ctttggtcgc agaccatctt tgctgcttgt ctatgctgag aataaatgtg aacggtgccc 240
 ctggacgctg gatccatgct ggttttggac acgttgtctt tttgtgttta acttatctgc 300
 taccgtcctg taacgaattc actaagttct agttcttttg tgctttgtta agaataataa 360
 caatgaggtt tcaattttgg tggcgcc 387

<210> 53166
<211> 478
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F6

<400> 53166

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gccgcgaggc cagccgcgcc ctccgcaaga tgtccaagga cgaggccgac gtctccgggg 120
acctctccgg gctcaccgac aaggagctcg gcgtcctcgc cgactgggag atcaagttcc 180
aggccaagta ccccgtcgtc gcccgactcg ccgccgacgc ctgaactcgt cagtctcggg 240
ctaaatttac tctgtcctgc ctcttgccgt gttcagtgcg gtgcttgctt gcttggtgct 300
agttgctttg ctaccaata atctgaatgg aaggacgtat gtgatgtgcc tgctgaatag 360
ttcctagtcc ttgcatacac tgctgtgcta ccacatgaca tgatgtactc gtgtgtgtgc 420
tttggttggt gtgtaattcc atgaccatga tcagtaatct gaataaaaaa tattggag 478

<210> 53167
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F7

<400> 53167

gcaaaaaaaaa aaaatgcctt ttgaaaata aagatttcaa cttaaaaaaaaa aggttttttc 60
cataaaattt ttttttaaac aattaaattg tggattaac aaaatttttt gaaacctttt 120
attctttttt aaaaaaaccc ttgggattta ttcaaaca ggtaaaaaat caggggggtg 180
aaaaaacctg gaaaaaata aaattcttgt aaaaaaaat aggggggtta accttttata 240
aaacgctcag taaaaaaatt tgataaaaaa atttttttcc aatttgggtt tcttaaaaaa 300
agttctttta aagggatatt ttttaaaatt aaaatttttt tgaaaaaaa attttacggg 360
cccttttttt ttccagtttt aaaaaaagg cggggggggc tcccaaaaaa ttttttgga 420
aaaccgcctt tttttttatc tttaaatatt tgaacccttt ttttt 465

<210> 53168
<211> 401

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-E10

 <400> 53168

 cccacgcgtc cggattgttt catcaatcat tatcttccac actcctgtcc gcgctgtcaa 60
 tgcactggga gctgccattg ccattccttg cacattcctg tactctcagg caaaggcgtg 120
 aggcgggcca tgatgacgaa cgtctgcaga atcagtagca agcactaaat ccaattttgc 180
 ttgttccagt ggcattgtaga tatcgggtta gttttccgta tgagagtttg taataatgga 240
 tgaatggctc tgctgtttcg ttcttgtttg ttggccagac tcaaattccat aggccatgaa 300
 ctgcggtcga gtgtacctga ataatactgt acggaagatt cgccgatgct tgttctttat 360
 gggatatatat ataggccaag ccggaattcc ggttttaata g 401

<210> 53169
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-C6

 <400> 53169

 tgcctgctcg agataacctg ctgattggat gaatctattg caaggatggt taccgagtac 60
 tgatgctatt tatgttgtat aagatgatgt gcgctatggt gtctgatggt tttatatata 120
 ttataatggt gacgaaaccg aggtaaaaaa taattttatat atgtatactg gtgtgattgc 180
 cttgctaaaa aaaatttttg gaccaaattg ttaaattctt gacatagaac atgcataatt 240
 cataatttgt tcttgatcgt tattgggtctt tttatatcat gatctatttg gctgatattg 300
 attattttct tgatcttggt tattcttt 328

<210> 53170
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-C7

 <400> 53170

 gtactactac caccaccatt tgtttatctg atgaatgaac ggtgacgatg atgacgatat 60

tgttt

65

<210> 53171
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C9

<400> 53171

attcccggtc gaccaccctt ccgaaaaaaaa aaacaacaaa ctaaaaatac taataaaaaa 60
caacaaatac tacactaaac tacaaaaaaaa gggctgaata ctctaaacga ttcaaattta 120
aatctcctta ttttcgaata cttcatactt taatatagga acctaaatat agataactac 180
cccatgctta caaacgtttt tattcaaaat acccacgttt acaaaaatta tatttttctt 240
aattacttca cttttttacaa aattt 265

<210> 53172
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D1

<400> 53172

aaaaaaaaa aaaaaaaaaa aaaaaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaggg 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaattgg gggggccttt ttaagggaac caattttatt 180
aacccttttt ttaatatata aagttttttt atagtggacc caaattttaa ttatttgacc 240
tggtttttaa aaaaaaattt ttggaaaaac ctgggttttc caaaatttaa ttgtttggaa 300
aaaaatacct ttttaaaaag ttgggatatt tgcaaaaag 339

<210> 53173
<211> 276
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-D10

<400> 53173

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atatccacaa atgaggctcc atcatcctta ggatccataa ttgacgcacc atcttcaactg 120
cacatttcaa gacggctaga agaagcaagc aagactacag acatagcctc tgctgtactt 180
gttcgaaaga gcttggcatg attacagggg tcatnctgct ngtttcaact ctcatagggg 240
tttgcttgct tatgaacatg ccacttacca gggaca 276

<210> 53174

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D11

<400> 53174

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ctacagaagg aaaaggacca cattgagggc tttgcacctg aggtagcttg ggttactaaa 120
tctgggaaat ctgacctgga agcaccgatt gcaatccgcc ccacaagtga gactgtcatg 180
tatccatact tctgcaaag gataagaagc caccgagact taccctagat gtgtaatcaa 240
tggtgtaatg ttgttttagat gggagttaac aatccaac 278

<210> 53175

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D12

<400> 53175

gcagcggcct acgccgtcgt gctttcgaat tacctcggca cggccagcct gcgcgtctgg 60
gagttcgccg ggggcgcgtg gcggcaggtg gccgccatgc cgtccgcat gtctcacgga 120
ttccacggca cgcgccccga catcaactgc gtcagccacg gctaccgtct gatggtctgc 180
gtcacatacg ccgaggccaa cgcctgcttc atgtgogacg tggccagcaa ccagtgtgag 240
gagctgcca agtacatcat atgc 264

<210> 53176

<211> 527
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-D3

<400> 53176

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cgtggacaag acgcacgtgg cgcacacccat cctgngcacg ccggagttca tggcgccgga 60
gctgtacacg gagacgtaca cggagtcggt ggacatctac tcgtacggca tgtgcgtgct 120
ggagatggtc acgcgggagg tggcctacgc cgagtgcggc agcgtcgtgc agatcttcca 180
caacgtcacc cggggcgctcc cgcccgcggc gctcaagcgg ctcaaggacg ccgagctgcg 240
gggcttcacg gagcgtgca tcggccagcc ccggaaccgg ccctcggccg ctgacctcct 300
gcaggacccc ttcttcaacg gcgtccgtgg cggngacgac gacgacgacg ccgcggcgct 360
cgccgacgcc ttcagcgtcg tcgccgncgc gcccggtgcc cgccccagga gctacgtcga 420
cgacctgccg gggctccggc tggactgacc tgaccgtccc tcccagcgtt ctgcctttca 480
tcagtaccgg gattccggcg cgtgttagac gtgttttatt agaagtg 527
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<210> 53177
 <211> 507
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-D4

<400> 53177

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gggaagtact gtgatgtaac acttatgtca ctggcatatg ccgggacagg aaatgtgctt 60
aagggtcaga aacttcttgg catttgctca cagcatcttg agaaaggatga aacacaccaa 120
gggccagctg tcctagggat tgctcttatt gctatggctg aagaattagg agctgaaatg 180
gctgtacgtt cacttgagcg tcttctgcag tatggcgagc agaataaag acgggcagtt 240
cctcttgctc ttggtatact ctgcatact aatcccaagg taaacgttat ggacacacta 300
agcagattga gtcattgatg agacccgat gtgtcgatgg ctgcaattat ctcatgggt 360
ttgattggtg ctggcacaaa caatgccaga atagctggca tgcttcgcaa tctttcaagt 420
tattactacc aaagaatctg ctcatctgt ttgtgttaaa attgcccagg gccttggtca 480
ccttggaag ggctttgttg acccttt 507
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<210> 53178
<211> 687
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-D5

<400> 53178

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agaagacaag gacgaaggca gcaagggtgac tctttcaggg ctctcaact tcatcgacgg 120
gctgtggtcg gcttgccggc gcgagcgcac catcgtgttc accaccaacc acaaggacaa 180
gctggaccgc gcgctgatcc ggccgggagc gatggacatg cacatcgaga tgcctactg 240
ctgcttccag ggcttcaagg tgctcgcaa gaactacctg ggctgcagg agcatgacgg 300
cgagctgttc ggagacatcc gtcggctgct ggaggaggtg gacatgactc cggcggacgt 360
ggcagagaac ttgatgcta ggtccaagac caaggacgcc gatgcctgtc tccggaggct 420
cgtcaaagcg ctccaggagg ccaaggaggc ggctgtgttg gcggccaaag ccaaacaact 480
ggacgggatc aaggacgatg aggaaccga cgatgaagac gacagcgatg acgatggcag 540
cgttaccagc agaggtcacc cctccgacgg tgacgaanag agtgccaaaa aagaggaaat 600
gtaataaaaa agtttaaaac ctataaaagc ctgaaagcta ggtgaggata cttgactnga 660
gcattccttt ccaagctggt ggtacct 687

<210> 53179
<211> 650
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D6

<400> 53179

cccacgcgtc cgtccaaatc cgctcgtctc ccctogaagt cactccctcc agccctcgcc 60
ggctccgcgt cctccggctc tcccaccga gccgagacca cccatccaag cgcgcgcagc 120
tccggaagcg acagggccgg acgagcgctt cccaaattta gcagccgcgg agcgcgtggg 180
cgtgggtccg taaggagggt cgatggggta cctgccgtcc ctgagcagca aggcggcgca 240

cttcgtgtcc gacctcacca ccgtcatcct cagccccgtc tccgagcgcg agacgtccca 300
cctccccgag gttgacgaag tgctagaaaa tttggacgat gataaagatt ccgagcacia 360
ttccgatagc cttgatggcc ctgacacatc ttcctttaga gcattcttga tctcattttt 420
gtcatcatcg agctctaata acgattcaat ggagataatt cctgagcaga atggggacat 480
gggttacctt actttaacac ccatggggaa gggaagcaag ggaagaacgg gtctgttaag 540
tagggggaag cattccatcg gaaaaatcat taacaaggcg gcaaggatta gtggtttcaa 600
acaaacaact gcagagccta aaattgacag ggaggcagta actcatactg 650

<210> 53180

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D8

<400> 53180

cccacgcgtc cggcgcggtg cccgtgccgg tgtcggcaga cgcggcgcaa gcgctggagg 60
gcgactgcgc ggcgggccgc gtggagctac gcctcgctcg catgggccgg gtcaagtaca 120
tgagcggggc attcaggacc ggatggcgcg ggctatacct gcgctgcgat gtcaccgtcg 180
gcctctgggt ggacgccacc gcgggcgacg acggagccgg ggacgtgcca ctgctcgagt 240
acccaagtg ctccgtcgac gcttgagttg atccttgatc ggcgcaatgc atgagcgctc 300
agatgatcag attttcagaa ttctggtgga gaataaggaa ttggg 345

<210> 53181

<211> 597

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-E1

<400> 53181

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aagatagaga acataaatga tcagtactgg acattacgag ctgaggagat cccagaggaa 120
gagaagaatc ttggcccaca tgatcgattg attcatgttt accatttcat gaaagaccct 180
aaccagaatc aacaaattca aaattttgga gatccttttt tgatggttat tcgggaaggt 240

gagactgctg cagaggtaat ggagcgcac cagagaaaac ttagagttcc tgatgatgag 300
 ttctccaagt ggaagcttgc attcatatcc atgaaccggc cagagtacct ncaggacact 360
 gacgttgat cagcacgntt tcagcggaga gatgtatatg gtgcttgggg acaatacctt 420
 ggcttggagc aactgatac aacatcgaaa cggctctacac atccaatcag aatcggcaca 480
 cctatgagaa gcccgtaaaa attattaatt gagaaacctt catcaagggt caatccattg 540
 tcaaaggcgt cgacagcagc ttgcccaagg tgatacgacg ctttaaacgg aaaaatc 597

<210> 53182
 <211> 700
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-C5

<400> 53182

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 aactacagga gtactggaag cagtcccaaa gttctacgcg tcttgcccca atgcataatg 120
 ctgctgataa atggattact gagtttggca agcaaaataa taatccagaa aattgggcga 180
 actctttcga acaacaatat ggccccaatg ggtgggcctc tgagtttgaa cagcatcagt 240
 ctcatatggc catgcgccag atgggaggag cgaacatggc caacctggct gctatggagc 300
 aatcccgagt gcttgcacaa acttttagcaa gtaataatga tccaagttt cagaattcta 360
 agttcttcca gtttgtttca aagatgagcc gaggtgaact tattatagaa gataatcaag 420
 taaaagaagg ttcagcatcc caatccagtg gctgggctga tgaatttcaa acaccgtaca 480
 ttgctaatgc aaactcatgg gcagatcagt ttgcacatga agagctttca caaggggcgg 540
 ataagtgggt tagcgagttc tctagtcaac ctaatcatgg tgcactaaat gagaactggg 600
 ttgatgagtt ctcgaaataa atgttactga cgaatgggca gaggaattca gtggaggtgg 660
 ttntggcgaa agctctgctg gatcatgggt agatgagttc 700

<210> 53183
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B2

<400> 53183

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atctacaaca aagacatgga gctacgacgc gattcccaag tatgatggat tccactattc 120
atcaaccgaa attatggcgc gcttcaatcg tggctacgct gatggggaac tgatccgtta 180
tggtgtgctt ggatcgtggc tgtgtggaga tgtgtggaac tcattgggta taatggtgat 240
gctgatggaa ctgattttgc tcccgttga cggcctgatt gggtactttg ccctgttgac 300
tgtttgagaa cgtatccgcc aggtttactt atacttactg ctttttgacg gtactgt 357

<210> 53184

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B3

<400> 53184

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gggtttccac tgggtgcactt gatgacataa gacgtgctac tgacatggcc taaaagctg 120
tagcagaata cggctttaat cagcgcatcg ggccaatata acttgctaca ctgtcaaatg 180
gtgggttaga tgactctggt ggttctccat ggggaagaga tcagggccat ctagttagtc 240
tcgttcagag ggaagtaaaa gcgcttttac agacggcact ggaagtagct ctttcagtta 300
ttcgtgctaa tcctgcagtt ttggaaggcc tcggagcata tttagaagag aatgaaaagg 360
ttgaaggcga ggaacttgaa gagtggctaa agtcagttgt tgcataaaa gagttgacct 420
cttttatcag aggacagcaa gagcaagttc ttcagctgga agcaggctcc tagcgtcagg 480
gactcttaaa taaatactta 500

<210> 53185

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B4

<400> 53185

aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaaat aaaaaaaaaa aaaaaaaaaa 60
 taaaaaggga aaatataaaa aaaagaaaaa aaataaaaca aaatataaaa tacctaaaaa 120
 aaagtgggtgt aaaatattgg tttaaagcta tgttaaatta tcatgatagg atgttacaag 180
 atgaatactc tatcatatcc cttttaagaa gaaactttat cttaaagttc atgtactacc 240
 catagaaatg gatcctatag taacacattg aacac 275

<210> 53186
 <211> 691
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-B5

<400> 53186

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 accctcgcgt cttcttcgac atgaccgtcg gcggcgcccc ggcgggcccg atcgtgatgg 120
 agctgtacgc caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggcg 180
 agaagggcgt gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgcg 240
 tcatccccga gttcatgtgc cagggcggcg acttcacccg cggcaacggc accggcggcg 300
 agtccatcta cggcgagaag ttccccgacg agaagttcgt gcgcaagcac accgcccccg 360
 gtgtgctctc catggccaac gccgggcca acaccaacgg ctcccagttc ttcatctgca 420
 ccgtcgcgac cccttggtc gacggcaagc acgtcgtctt cggccaggtc gtcgagggca 480
 tggacgtcgt caaggccatc gagaaggtgg gcacccgcaa cggctccacc tccaaggtgg 540
 tcaaggtcgc tgactgcgga cagctctcct agatctctct gatctggtct gttcggccgc 600
 cctccctccg tcatcgtcga ctccccctgc gtcggttctt ttggatctga antagatggg 660
 ggtgatctga gtggtggtct tagtttatca t 691

<210> 53187
 <211> 532
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B6

<400> 53187

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cgatcagcac tcattacatg gctacgatcg gcccgattt gctcacccat gacgctctgc 120
tcgtggacag gatttttact ctgcaaatgt gggacactgt tggccatgaa tgggtaccaga 180
gtctagacgg tgcattctac cgctgtgctg attgttgtgt gctattctat gacgtccatg 240
ctatgatgat catatgacga cctgaataac tgtcgagaat agtatctagt tcatgctagc 300
tccatcatat cctgataaca tacctgatgt tcaggtgggt aacaaagctg atgtatatgg 360
tgacaacagc acacgcgtta tctgctaaca aggcgaacgc ttggtgcgct tacacaggga 420
acatcgactg ctctgacacg tctgataccg accgaacgat cgtggaagac gctttgcaga 480
gtgtcccgaa gaatgctctg aataatgacc atgccgaaga actgtatgtg cc 532

<210> 53188

<211> 692

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B8

<400> 53188

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ctctggctta gaaaaaaaaat atgcgcttca tagtcatac ctagatcttt tgggtgttcag 120
ttttggtttc aagccatggc gaattctcgg attggacgtt acaagatgtc tactctctca 180
gacccctcaa aagaagatac ttcacctgag ggttcaggta ctaccagag aaatggagcc 240
tgagtaaca cattgaacac tcttctgcag caagcctcag tatatggtgt ggccgctggg 300
tattgtttat cagcgtcctt gctctcgatc atcaataaat gggcaatcat gaaatttcca 360
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ggacagctca agctcattga gcacgatgga cttaacttga ggacaatgtg gaagttctta 480
cctgctgctg tgatgttcta catctccatc ttcacaaata gtgaactcct gcttcatgcc 540
aatgtggata ctttcattgt gttccgctct gctgtgccta tatttgcgc gatcggagag 600
acgctgtatc ttcacagcc atggccatcg ttcaagacat ggctttcact ctccacaata 660
cttggtggaa gtgtgatcta tggtttcaca ga 692

<210> 53189
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B9

<400> 53189

tttggccggc cggcttccaa gccggccgaa ggaacccgaa aaccaaggca agaaccccg 60
aagggtgag ggaagggccg ccgggcatgg ctgccggcc gcc 103

<210> 53190
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C1

<400> 53190

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tcggcaatga gagctgcac gtggcggtcg cgcggcagcg cggcatcgac gtggacgaac 180
tgctggaagt cgcaagatc tacggcgctc atgtgatgcc gaccttctgc ttcacagga 240
acggcgagac gctcgagagc ttgctaccg tcgacgagga cgagctccgg gacgccgtca 300
ggaagtacgc cgcgctggc actacgacgg ctctgcctc ggcgtccgcc taattcagga 360
gatgtgatgt gtagcaaata gcgcgcgcgc accagtcgtc aataaataaa ttaataaata 420
aataaataaa taaataaagg ccaacgtacg acgacaaat 459

<210> 53191
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C10

<400> 53191

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caccgtcgtc ctctgggagt gggccaaggg cgacaaccag cgctggaaga tctgcctg 120

gtgaacgtga acagagacga gctagatgaa tccaaggaac cttacctagc tgctgccgcc 180
gccgcctaatt tegtectect cgcctctagc tggtatctgt ctgtgtcttc gcgtcctcgg 240
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catct 305

<210> 53192
<211> 301
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C11

<400> 53192

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aagaccgtcc tcaagacgct gcgcaactcc aagggaagc tgatcatcat cgcaacaac 120
tgccctccac ttaggaagtc tgagattgag tactacgcc a tgctggccaa agttagtgtg 180
caccatttcc acggaaacaa tggtgatctt ggcaactgct gcggcaagta ctacaggggtg 240
tgctgcctca gtatcatcga cccaggtgac tcggacatca tcagtaccac cccttgacc 300
c 301

<210> 53193
<211> 309
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-C12

<400> 53193

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aacacatttc agcccacat tgtctccggt tcttgggacc gcaccgtcaa ggtctggaac 120
cttacgaact gcaagctgcg ctgcactctc gatggatcatg gcggatatgt taacgccgtc 180
gccgtgagcc ccgatggatc gctctgcgcc tccggcggga aggacggtgt tactctgctg 240
tgggatttgg ctgangggaa gaggctgtac tcgctggatg cgggctccat catccactcc 300
ctctgcttc 309

<210> 53194
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C2

<400> 53194

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gccccgcggg gcgccagggc ggcttggggc agagcatcgc aggcacgtg cggatggcgg 180
tgttctggta ctttgctcc aagttcttcg ggcccaagcg cccaccgcg gaccccgga 240
tgctcatgtc caacctcttc cagaagggcg agccaatgga tatgtggatg tatttgtcag 300
agaacgagaa gttcaacgat ttgctaatag aggatgcact tatttggcac gaggcaaaca 360
taccatatgc agtctgggga cctaccagta ctagaacacg gtcattaacg tactatccgt 420
cagaggctct caagcataat ggctctttgt atgctcatgt ttactt 466

<210> 53195
<211> 542
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-C3

<400> 53195

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tcggagaaga tcattgaaga aatccgaaac agagagtggg gcttgcttct aatggatgag 120
gtccatgttg tccctgcaca tatgttcaga aaagtcatca gcattactaa atctcactgc 180
aagctgggtc ttactgctac ccttgtgaga gaggacgaac gtattactga cctgaatttt 240
ctaattggac caaaactgta tgaagcgaat tggttggatt tagtcaaagg tggatttatt 300
gcaaattgtc agtgtgcaga agtatggtgt cctatgacca aagagttctt tgctgagtat 360
ttgaaaaagg aaaattcaaa gaagaagcag gtactgtatg tcatgaatcc gaacaagttc 420
agggcttgtg aattcctgat tcgattccat gagcaacaac gtggagacaa gataattgtg 480
tttgctgata aatctgttgc actaactact tatgcgatga aactgcgcaa gccaatgatt 540

<210> 53196
 <211> 526
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-C4

 <400> 53196

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ctgcggagcc tcgcggaaga gaagaagacg gggctgctcc gggcgctccc cggcgcgggc   180
gagcggctgc ggctgttcga ggcggacatg tacgacgccg acaccttcga gcccgccatc  240
gccggctgcc atttcgtctt ctcgctcgcc acgcccctga cgcacgacct caccagcacc  300
aagtacaaga acacgacgga ggcggcgggtg gacgcgggcg gcatactcct ccggcagtgc  360
gcgctgtccg gcacggtgaa gcgcgtcatc cacacgggct cggtcacggc cgcgtcgccg   420
ctcaaggagg acggcagcgg gtacaaagac ttcgccgacg agtccaattg gacgccgctc   480
aacctctnct acgaattcac caacgcttac ctggacgact acgtgc                      526
  
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<210> 53197
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-A10

 <400> 53197

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cgggtggcggc ggaggctacg gcggcggctcg catgcggcag cagcagctat ggcggcaggc  120
gccgtgaccg cggttatggc ggctgcggca gctactgctg gtcggcgcgga aggtggcggc   180
tgcggtact gacgcagagg cggatacgag ggtcggcgcg aggggtggcg cggcggttac  240
gtgctgcagt gcatgctgcg gctgcaggta ctgatgtgta ggcccatgct ggcttctgcc  300
gaggtatatt atctatctat agtat                                           325
  
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<210> 53198
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A11

<400> 53198

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tgctcggcag cgtctgcctc gccttctcca tggcgcgtctt cgtcgccccc ctgagcgtca 120
tcttcgttgt gatcaggacg aagagtgccg agttcatgcc cttcaccctc tccttcttcc 180
tcaccctcag cgccgtcgcc tggttcttgt acggcctctt caccaaggac ccctacgtca 240
cgctcccgaa cgtggggcgc ttcttcttcg ggtgcatcca gatgggtgctc tactgctgct 300
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<210> 53199
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A12

<400> 53199

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ccttcacctt tgacgccacg gtcgctggca gcatgactgt ttacttgttt gcaaaggaag 180
agctcaactg caatctaaca gcagtgaaag aagacctaat gaagcccgtt actgttagct 240
tcaaagaggg tcttgggtcaa aaattcatgc aaccttcagg aacaggaatt gacttttaat 300
ggttgaggga atcagattaa ttaaggcagg gggccttgaa ggataatcac ttggcggtta 360
aggttgaaca acattggttg gtgatcacc accagaaggg gatgacccaa agatgaaaac 420
tcctaactta cagatcacc a 441
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<210> 53200
 <211> 539
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A2

<400> 53200

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cccagaggac aaatcccatc caaagtttgg tgatgtttct gatctagagt tctggatgtt 180
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cttgacacaa cttgggattg acaaggatcg tctccgtttc cgtcaacacc tgccaaatga 360
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tgagtgtgtt ggaattgctg ataggtctgc ctatgactta cgtgcccact cggataaaaag 480
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<210> 53201

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A4

<400> 53201

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ctgggttatg gccccggggg aggaggtggc ggtggtggta gcggtggcgg tggaggcggg 180
ggttacggag gaccaggcta tgggtccgga tcagggtatg gtgagggcgg tggcagcgga 240
ggtgctgctg gagggatatg acatggtggt ggcggcgggc gcggtggtgg tgaggggtgcg 300
ggagctggtg gctctgggta tgggtccggg caaggatctg gctacggagc tggcagcggt 360
gctgccggtg gatatgggag tggcggaagt ggtggaggt 399

<210> 53202

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A5

<400> 53202

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 aaaaaaatc gatgtagtat gaagcacctt gctgctctga atattaacag gcaattaagg 180
 caaggtgctg tttcgggttg gtggaccgca tgttgacagat aataaattag ttgttttctc 240
 atttgcgtc 249

<210> 53203
 <211> 708
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A6

<400> 53203

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 gcctcagggc cgagaactcg acttgctgat tgttatactg cctgacaata atggttctct 180
 ttacggggat gtcaaaagga tctgtgagac taatcttggg ttgggtctccc aatgctgtct 240
 gactaaacat gttttcaagg tgaacaagca gcagtatctt gcaaatgttg ccctgaaaat 300
 aaatgtgaag gttgggggaa ggaatactgt gcttggtgat gctttggcaa ggagaatccc 360
 ccttgctcagt gacatagcga ctattatctt tgggtgctgat gtgacccatc cccatcctgg 420
 ggaagattct agtccttcca ttgcagctgt aagtgaagac ctatcctgac aaagaaatgc 480
 tacctttcag ttgaagcttt actatTTTTT tctcactggt tttctcctag gtggttgctt 540
 ctcaagactg gcctgaggtt acaaagtatg caggattggt gagggtctca gcccatcgtc 600
 aagaattgat acaggatctt ttcaaggtat ggcaagatcc cgaaaggggg actgtctctg 660
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<210> 53204
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-A7

<400> 53204

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ttgttggcgt ccgagggtga agccatgaag gccaaagatct accgcctttt cggccgggag 180
aggcccgtcc actccgtcct cggcggcggc aagcctgccg atcttatact atggaggaac 240
aggaagatct ctggcggggg acttgctggg gccacggcca tctggcttct attggagggc 300
atggagtctc atcttcttac cttggtgtg 329

<210> 53205

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K1-B1

<400> 53205

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acggcgggga ctcgctcgctg tcgctgctctg actcggacga cgagaagaag gggtcctcgt 120
tggcgtcggc ggcggaagcc atgaaggcca agatctaccg ccttttcggc cgggagaggc 180
ccgtccactc cgtcctcggc ggcggcaagc ctgccgatct tatectatgg aggaacagga 240
agatctctgg cggggacttt gctggtgcca cggccatctg gctcctattc gaggtcatgg 300
agtaccatat ccttaccttg gtgtgccact gtctcatact ctgctggcc atactattcc 360
tgtgggtccaa tgctnccact gtcacaaaca agtccccacc gaacatttct gaggtcaaaa 420
tcctgacga tgt 433

<210> 53206

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B10

<400> 53206

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agggaaaccag agagcaaggc gaggagcgcg gaagggctga gggaaggggc ggcggggcat 120

ggctcgccgg ccggcgctcgt gggagcaggg cggcgacgag tacgactatc ttttcaaggt 180
 cgtgctcatc ggcgactctg gcgtaggggaa gtccaacctg ctctcccgt tcaccaagaa 240
 cacc 244

<210> 53207
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H7

<400> 53207

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 agtgaatcaa ttgctggtgc tgctacaata aggggttttg gtcaagagaa gcggtttatg 180
 aaaaggaatc tttatcttct tgactgtttt gctcgccctt tattttccag ccttgctgct 240
 attgaatggc tcttgctgcg aatggaattg ctttcgaact tcgtctttgc tttttgcatg 300
 gcaatacttg ggagctttcc ttctggcaca atcgaaccaa gtatggctgg cctcgctgta 360
 acatatggac ttaatttaaa tgctcgcatg t 391

<210> 53208
 <211> 170
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G1

<400> 53208

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 atacaagctt tcgagcgtg catgcacctg ttcaagttaa tgaccttcac ttaaaactcaa 120
 tcatcctgcc agggatttac aacgaggggac acttctaaaa acccaacatt 170

<210> 53209
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G11

<400> 53209

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ttatcttcat tgatgaaatt gattctttat gcggtcaacg tggagaaggc aatgaaagtg 120

aagcatctag gagaattaag actgaacttc ttgtgcaa at gcagggtggt ggtcacaatg 180

atgataaagt tcttggttctt gctgccacga atacgccata tgctctggac caggctgtgc 240

ggcgaagatt tgacaagcgt atctacattc cgctacctga cttgaaagca aggcaacaca 300

tgtttaaggt ccatctcggg gatacaccac acagggttaac tgaaagtgat ttcgagagct 360

tggcccgtcg gacagacggg ttttctgggt 390

<210> 53210

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G2

<400> 53210

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caaaatattt tgctctctta tgctccttgg tctttctgca agtgcgtgcta cggcgaccat 120

tttcccgcga tgctcgcaag ctcttatagc ttcccttctt ccccggtacc tctcaccagc 180

ggtgtcttcg gtatgtgaaa acccaattct tcaaccctac aggatccaac aggcaatcac 240

agctggcatc ttacctttat cacccttggt cctccaacaa tcatcagccc tattacatca 300

gttacctttg gtgcatttat tggcacaaaa catcagggca caacaactac aacaacttgt 360

gctagcaaac cttgctgcct actctcagca acagcagttt cttccattca accaactagc 420

tgcac 425

<210> 53211

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-G3

<400> 53211

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 attttgaaga gacttgatgc tcccactaaa gctccagctt ggctgttgg ttctgaagga 180
 aaccgtccac cagcaaagtt tcctgttcct ctaccaccat caccttcaat gaaggatgac 240
 gagattcttg ctccatctca ggagctgagc aagcaagggt gtatcctgga ggctgntatt 300
 gaagcaagtg ctactgaaat tatcaatctc atggatagcc taaatgaatg gga 353

<210> 53212
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G4

<400> 53212

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 gggcggcaaa gcaacaccgg gagcctcact atgaccacga cgggggaagc aagcatgata 180
 attggagatg agaaagatgc aatttgctat ataaaagccg cattgtattg ctgcaaaagg 240
 actatacagt gctatcagga catagcgcaa tgcttgagga actgccgtaa aaatgtctaa 300
 caagaggcta tgctttctcc aactcgtaga tggagatcat aaagatgtta cgtagacct 360
 aatcatgcat agaccggagg agaaatataa gcttattagc ccatccataa ttaataactt 420
 cgta 424

<210> 53213
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-G6

<400> 53213

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 gagtttaatt ccaagctata tcagagactc ttcagttgct gtcattgtat tcgatgttgc 120
 aagcaggcag tctttcttaa atacatccaa gtggatagat gaagtctgca ctgagagggg 180

cagtgatgtt atcattgtgc ttgttgggaa caaaactgac cttgttgaca agaggcaagt 240
ctcgatagag gaaggagaag gcaaggcaaa ggaccttggt gtcattgttta ttgaaaccag 300
tgctaaagct gggtttaaca ttaaggcgct gttccgtaaa attgctgctg cccttcctgg 360
tatggagaca ctctcatcag cgaagcagga agacatgggt gatgtgaact ngaggctctgg 420
caat 424

<210> 53214
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G7

<400> 53214

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tccagttgct tctgataaga agactggtga acgaccgcct gacaaagata gaaaaaaga 120
tgctcctcaa ccccgcatgc aatttgacga tacacatcgg gtggtgaaag caaagaagcg 180
ttcagttggt agacaatcag aagctcaaaa cagggtcgaa ctgttcagac atctgcctca 240
atattcacat ggcaactaac taactgacct tgggtcaaaa ttttttcaa ctgatctgat 300
gcacccctct gtgtacaaag tttgacttca atatttgtct ggtgacatat ctggtggcaa 360
tgctc 365

<210> 53215
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G9

<400> 53215

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tcatgtacaa caagaactcc accgaactgc tcaaccgcct cgagtgggcc atggactccg 120
tcaagaagag gctcttagac agcctccacg acgtgctccc gaagc 165

<210> 53216
<211> 430

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-H1

 <400> 53216

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 tccagttgct tctgataaga agactgggtga acgaccgcct gacaaagata gaaaaaaaga 120
 tgctcctcaa ccccgcatgc aatttgacga tacacatcgg gtggtgaaag caaagaagcg 180
 ttcagttggt agacaatcag aagctcaaaa cagggtcgaa ctgttcagac atctgcctca 240
 atatgcacat ggcaactcaac tacctgacct tgagtcaaaa ttttttcaac ctgatctgat 300
 gcatccttct gtgtacaagg ttggacttca atatttgtct ggtgacatat ctggtggcaa 360
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 ttctgaaaaa 430

<210> 53217
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-H10

 <400> 53217

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 cggaggcgtg cgatgagggg aacgaccagg acgagtgcgt gcagaggcag ctgctcgctc 180
 acgcgcacct cgactacatc tacacgcaag acacgggcaa g 221

<210> 53218
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-H11

 <400> 53218

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 aatgttgcat gacagaaagc agtcgatgat caaagaatta aactcctacg ttgctctaaa 120

gaaacagcag gcaagtgaaa acaagagaat cgatcttttt gatgggcaa gtgctgaaga 180
 tggcttttgg gaagaaaatg tctgttagc atcaaatatg acaaaccagc agttaatgga 240
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 ccaagaaacc gtcaatgtgg gcacagaaac tgcagctgct ctgaaagcac agacagaaca 360
 aatgagcaga gttgttaatg agttggattc catccatttc tccatcaaaa aggcattctca 420
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<210> 53219

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H12

<400> 53219

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 gcgtgcgagg aggggaacga cacggacgag tgcgtgcaca ggcggctgct cgtcgacgcg 120
 cacctcgact acatctacac gcacca 146

<210> 53220

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H2

<400> 53220

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 cgccgccgca cccgctccag tccagcatcc aatcggaggc caagttcttg gcggacaaga 180
 agaagtttgg gacagaggcc atctacggat ccgccttgaa catccgcaag gatctcgatg 240
 cccaaatcct ctcaaggttc caaaggcccc ctggtgcttt gccatcatct ctgcttggat 300
 atgaggcact gacaggttcc ctagatgatt ttggttttga agattatctt aacatgcctc 360
 aagattctga aggtttccgt caacctgaca tgcaccacgg aat 403

<210> 53221
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H3

<400> 53221

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gaaaaaaagg agtaatcagc tgtgacacga aaaaaaacga atccttttgt agctcgtcac  120
ttattggcaa aaatcgaaaa ggtcaatatg aaggaggaga aagaaataat agtaacgtgg  180
tcccgggcat ctagcattct acccgcaatg gttggccata caatcgcgat tcataatgga  240
aaagaacata tacctattta cataacaaat cctatggtag gtcgcaaatt gtgggaattc  300
gtgcctactc ggcatttcac gagttatgaa agtacaagaa aggatactaa atc          353
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<210> 53222
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-H4

<400> 53222

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gccaacatat gcatggggat ttctaatact tcaggatcaa ttgtagcaat gcttctaattg  180
gacaagctag gtagaaaagt gcttctttca gggagttttc ttgggatggc ttttgcaatg  240
gggcttcagg ctgttggagc aaaccgtcag tatcttggtt ctgcatgtgt atatctttca  300
gttggtggca ttctggtggt tgtctggtca ttttcactag gagcanngcc ctgtccagga  360
cttttttgcc tgagattttc ctaataaaat                                     390
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<210> 53223
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H5

<400> 53223

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gatggagaag gcggacatcc ggcgcctcat ccacacagcg ctccgcgtcg gctaccgcca 180

cctggactgc gccgctgact accagaacga agctgaagtt ggtgacgcgc tcgcagaggc 240

att 243

<210> 53224

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H6

<400> 53224

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tggcggatgg agaaggcgga catccgcggc ctcatgcaca cagcgctccg agtcggctac 180

cggcacctgg actgcgccgc tgactaccag aacgaagctg aagttggtga cgcgctcgca 240

gaggcattcc agaccggact cgtcaagcgg gacgacctgt tcatcacaac caagctgtgg 300

aactcagacc atggacatgt gcttgaagcc tgcaaggaca gcctgaagaa gctgcagc 358

<210> 53225

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F9

<400> 53225

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gcgccctgca gaacgctgcc tccgtggctg gaatggtgct gactacccaa gcaatcgttg 120

tggagaagcc caagaaggct ccagcagcag ctgctgcagc ggcaccatag ggttctttca 180

ccatgtaata atactttcta gtgaaaaaca attttactag gcatggaaca ggcacgttag 240

agtgcaggag agaaaaaact atttttgtca tgcgtgggcc ggaataaatt gagtcaggaa 300

ttgcatggat tttgggccag gacgatttgc aaattgggtg gattagagtg tggatggctg 360
attggacatt gtatcctatc tgcattctgt tcaactcagtt ggctaattca catttctctc 420
c 421

<210> 53226
<211> 198
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E11

<400> 53226

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agagaatttt aaaggacaca ctgaaaggat ccaaactatc aaacacaaac aaacagggca 120
aacatttttaa aaaatccaaa cctaaaccca attcattcca cgtcctttta caactaaagg 180
accgccaaaa ccaattta 198

<210> 53227
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E12

<400> 53227

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gtcttcttca ttcctt 136

<210> 53228
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E2

<400> 53228

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cgagaggcgt cgcgctcctc tcttcgccct ctgctgttat ttttcttaac ccggctttct 180
ctcgattgct gcgtaaagtt gaagatgagg aagctcaagt tccatgagca gaagctcctc 240
aagaggcaca atttcttgga gtacaagagg gagggcggcc accgcgaggc gctcgtcaca 300
cagcgctacc gcctcgtgga gagggacgac tacaagaagt acaatgggat atgcttaatg 360
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atga 424

<210> 53229
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<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-041-Q1-K1-E3

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tgatagttgt atataagatc tgtggactgg gggcgatatca gcgcattcta cacagctaag 180
ggttgcatag ttgcgagaac tgaagcatgt aaatgtcttt aaactgccat ctgattgaga 240
tgacagtagta ctgctgttct ggaataagac atgtctgctt ttgggggaaaa tgattcaaaa 300
aatgtttcgt ttgaactcag cgtctgctga aaatgaattt ggttcccgac cctgtttctg 360
gttggccgaa attcaaaata ataaagcana tggaccca 398

<210> 53230
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E4

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tgataggcgt atatctgac tgtggactgt tggcgatatca ccgcattcta cacatcta 180
ggtagcgtat gtgcgagaac tggagcatgt aaatgtcttt aaactggcat ctgattgaga 240

tcgggcacaa ctgctgatct ggcattgagac atgtctgcta tcggcgaaaa cgattcaaac 300
 agcggttacgg tcgaactcag aggctgctgt acatgaattt ggttgcg 347

<210> 53231
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E5

<400> 53231

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 tatttatcta atatatcgtc ttctccaca cccattctcc ctttgacaat tgaagaaaac 180
 tgcagccact ggaggtccaa gattatagag cgcagaaaag tctctcgtgt tgaaattttg 240
 tctccatcct ggtgcataaa cggtttgctg gacagactgg cggaagagta caaagacaaa 300
 gcgatgtatt ccagcagatg gctttgggtt ttcatactgt acaatttcat ttctgtaat 360
 aaaatttggt caaccatgtc acagtgaaaa 390

<210> 53232
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E6

<400> 53232

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 tattgatcta atctatcgtc ttaatacaca cccattctac ctttgacact tgatgaaaac 180
 tgaaggcact ggacgaccaa gattatcgaa cgcaaaaaag catgtcgtgt agaaatttta 240
 cctgcatact gttgcgtaag ccgttagctg gacagactgt cgcaagagtc caaagacaca 300
 gcgatgtc 308

<210> 53233
 <211> 425

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E7
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 aaggtgctcc gcgacaacat ccaggggatc acgaagccgg cgatccggcg gctggcgcg 180
 agggcgcgcg tgaagcgcat ctccgggctc atctacgagg agaccgcgcg cgtcctcaag 240
 atcttctctg agaacgtgat ccgcgacgcc gtcacctaca ccgagcagcg ggcgcgcatg 300
 accgtcacag ccatggacgt cgtctacgcg ctcaagcgcc agggccgcac cctctacggc 360
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 ttctg 425

<210> 53234
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E8
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 gtgtggctca tggttccaat ctaacaataa ccatattaac tataatgaga tatttgtgtc 180
 gcaggggata taactataaa ttggacctta tagaaaaaaa gagaaggtgc attacaaatca 240
 ccaatcatatc atatagattg cccttgggtc accaaaaata tacacaaata gaaagccata 300
 agattaaaca catcatcacc cacgcgtccg cggacgcgtg ggccaaagcc aaagccaaag 360
 aatcctcttg acttgctgcc accaagcaag atggctcttg atgactg 407

<210> 53235
 <211> 216
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-041-Q1-K1-E9

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 gggaatacaa catccaacta taagagatct atatctctag cgcctaataa tgttgaccca 120
 gattatgatg acactagatc ctgcgctcaa gctactacgc aatccttgtg taagacaaat 180
 ctgtctacct ctacctaaat ttgaaaaccg ggaaca 216

<210> 53236
 <211> 150
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F1

<400> 53236
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 aaaatttcaa aacacaaaaa agacaaaaaa aaaccaaacc aaaaacaaaa acaaacacc 120
 accaaaaaaa aacaccacta caacatccat 150

<210> 53237
 <211> 302
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F11

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 atcgtcgttt tcttcctcgg gcttgctctg gtcatgcgtt ttttgttggt tgacttaact 180
 tcattttact ggatgttgct ttccttagtc gtgactgtaa agaccttggc gttcccgatc 240
 ttaatggcct tgtactgctt tgcctttttt ccggttgggg ctttccctgt aggggtctgac 300
 cc 302

<210> 53238
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F12

<400> 53238

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<210> 53239

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-F3

<400> 53239

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acggcaccgg cggcgagtc atctacggcg agaagttccc cgacgagaag ttcgtgcgca 120

agcacaccgc ccccggtgtg ctctccatgg ccaacgcggg gcccacacc aacggctccc 180

agttcttcat ctgcaccgtc gcgaccctt ggctcgacgg caagcacgtc gtcttcggcc 240

aggtcgtcga gggcatggac gtcgtcaagg ccatcgagaa ggtgggcacc cgcaacggct 300

ccacctncaa aggtgggtcaa ggtcgtgac tgcggacagc tctcctagat ctctctgac 360

tggctctgac ggccgtcctt cctccgtcat cgtcgactcc atctgcgtcc gttcctttgg 420

atct 424

<210> 53240

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F4

<400> 53240

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ctccgccccg ccgcccgtcc cgccaggacc tactccgccg cggccaagga gataactgta 180

cgggaagcat tgaataccgc attagatgaa gaaatgtcgg cagacccttc tggtttcttg 240

atgggagaag aggttggcga gtaccaaggt gcatacaaga tatccaaggg tttgcttgac 300
aagtatggcc ccgatagggt tctcgatact ccgatcactg aagcgggctt cactggcatg 360
ggtgttggtg ccgcttacca tggctcttca cctattgtag agttcatgac atttaacttt 420
tcga 424

<210> 53241
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F5

<400> 53241

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aagaaaaaaaa aaaaaaaaag agaaataaat aaaaaaaaaa aaaaattaac aacaacggat 180
aaaaaaaatt aataatgcta ccgtagtgac cccttggcta ttcggaaatc tccgtcattt 240
tcaaacattt cgacttggga ataaacgtcg tttaggccat ttagcgggtg ggcaccaaaa 300
actttttcac ctg 313

<210> 53242
<211> 176
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-E10

<400> 53242

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tttgatctac gataagttct atctctagct ctacaggcag ctgatcctgc tgattaacaa 120
cctagtcata gatcaggtgc tttgtcaagc tcaacatcat ccacatcgac gatctt 176

<210> 53243
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-F7

<400> 53243

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cggcgccatc ctggaaggga tcggcctgga gggacacttc tccaagccca acatccccgct 180

catgagggcc atactcgaca agctcgccac cctggggctg cccatctggg tcaccgagat 240

cgacatcagc aacaagttcg acgcgcagac gcaggccgnc tacctggagc aagtgtctggc 300

ggaggcatac tcgcacccgg cgcgcagcgg agtcatgctg tggacggcgc tgcaccccag 360

cgggtgctac cagatgtgcc tcacggactg gaaacctcag cacctgcccc cgggggacgt 420

ggtc 424

<210> 53244

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F8

<400> 53244

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gatgacgcac ttccatagca tctctcccta acctgccagc tcggtcgacg tctgtgggta 180

ttttaagatc ttgatgtgca cattgcgcgg cgatgtacat gttcgttaaca ttagtcactc 240

ttcattatct ctctgcaaga taaacgcgca gactcaagcc gtctacctgg agcaagtgtc 300

gcgggaggca tactcgcacc cgccctcat cctaatactg ctgcggactg cactgcaccc 360

tatcgggtgc tacc 374

<210> 53245

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C4

<400> 53245

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aagacatccg ccgatctcag atggccggga gaaggggtgcg cggcaagagt gccgtggccg 120
 tggcggccgt cgcgtgctg gcgctgctct tcgcggcgag cgaggccgac gggacgtgca 180
 acgtcgaccg gggcacggtg ctgaggcagt gcgcgtcctg ctcgagcggc gcgccgagcc 240
 aggggtgctg cgacgcgctg aggaacgccg acttcggctg cctctgcagc aactactgga 300
 acaagctcaa gaacacgcca tacgccagct gcgccaaggc catcccttcc gcggtgaacc 360
 tcccatacgc caagtgccag tagatggaga catggagtgc gtgaccggga cagcgaac 418

<210> 53246
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C5

<400> 53246

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 ttggtactca atggcaagag tacaattcca caccttggag gcgcagagct cggtttctctg 180
 tatagtgtac ctgagcagag ttttctgggt ctcttcgata ggcttaatat tcccagagtga 240
 tgagactcct aaaggaggca gactcctcac atgtagattg catgaacgcg cagaggccgg 300
 ccacagctcc aagtgaccga aacaggctctg gggggccggt tccccatcgt cttctgcctt 360
 ctgggcttcc tgccaatcct ttcttcgcac ctacttttta ggagctcatg tgcttaactc 420
 gtttc 425

<210> 53247
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C7

<400> 53247

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 tccgcggcga agatgtcggc gcgcggcaag ggcgggaagg gcctgggcaa gggcggagcg 120
 aaacgccacc ggaagggtgt ccgcgacaac atccagggga tcacgaagcc ggcgatccgg 180

cggctggcgc gcaggggcgg cgtcaagcgc atctccgggc tcatctacga cgagacccgc 240
 ggcgtcctca agatcttctt ggagaacgtg atccgcgacg ccgtcaccta caccgagcac 300
 gcgcgccgca cgaccgtcac agtcctggac gtcgcatacg cgctcaagcg ccagggccga 360
 accctctacg gcttcg 376

<210> 53248
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C8

<400> 53248

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 actgatattt ataataatat actcaatcct gatgggttgt gcccataaac atacaaaggt 180
 ggataattga ggtcactggt gcggcgagac accctatacg tctgcgagac ctaccagctg 240
 caggttgact tacgtgagca ttatcctatg gatgcacctc atg 283

<210> 53249
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D1

<400> 53249

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 agtggcaact caacatccct gctggattca agcacatggt ctccaataac ctacaaacgt 180
 gggtaattga ggtcactgga gcagccggca cggtttacgc caccagacc taccagttgc 240
 atgtagacct gcctgagcat tatcctatgg aagcaccaca cgtcatcttg ctcaatccag 300
 taccaatgca tccacacatt tacagcaa 328

<210> 53250
 <211> 422

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-D10

 <400> 53250

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 gttgcgccgc cgccgcgctt gcggtcgccc tcatcgctgt cgttgccggc gcaaccgcgc 180
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 aggctgtgga tactgagttg aaccttcgaa ggaggggtgc ttcatactcc attctcttct 360
 atgctgcatg gtgtcctttt tcgagcaaat ttcgaccgat atttgaaact gtcagcacta 420
 tg 422

<210> 53251
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-D11

 <400> 53251

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 gatggcggtg gccctccta cggcggcggc gctggagcag ctaagcagca gcaagatgtt 120
 cgacggcttc aatctccgct tccgccacca gagcgccacc cttggctgcg ccatgacttt 180
 ctccatctac ctgccccgt ccccggcgtc caaccttccc gtgctgtact ggctctcggg 240
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 gtggaaa 427

<210> 53252
 <211> 419
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D12

<400> 53252

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taaagcaagt ctagtctcta gaggaggagg cggaggggga ggccatgggc aaggacgacg 120

tggtccagag cggcggggc ggcggggagt tcgccgcaa ggactacacg gacccgtcga 180

ggcgccgct ggtggacgcg gcgagctgg gtctgtggtc gctgtaccgc gcggtgatcg 240

cggagttcat cgcgacgctg ctgttcctgt acgtgacggt ggcgacggtg atcggttaca 300

agcaccagac ggacgcgtct gcgtcgggtg ccggggctga cgcagcgtgc ggcagcgtgg 360

gcgtgctggg catcgctgg gccttcggcg gcatgatctt cgtgctggtc tactgcacc 419

<210> 53253

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D2

<400> 53253

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tctttgctc cttgttctct ttagcatagg catgggcatg gccaccgctg ctgcaaaccg 120

caactgggt tatggccccg ggggaggagg tggcggtggt ggtagcgggtg gcggtggagg 180

cggtggttac ggaggaccag gctatgggtc cggtacaggg tatggtgagg gcggtggcag 240

cggaggtgct gctggagggt atggacatgg tggtagcggc ggcggcggtg gtggtgaggg 300

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<210> 53254

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-D3

<400> 53254

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 ttccctgatg ccttcttctt tgagaaggcc tccgctgagg cgttcatgga gcgagtcgag 240
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 gtccaggagt tccaggcact acacgacaca cacttggtc cagatgagca ttcatagtat 360
 ntcgtcttcc atgtcaatta acctataaac tctttaataa tggacgtctc gatgatgtgg 420
 tatcatccat g 431

<210> 53255
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D4

<400> 53255

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 gagactgggc atgcgctcgg agcccagacc aggttacaac gagagcaagg ccatccctga 180
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 gtccaggagt tccaggcact acacgacaca cacttggtc cagatgagca ttcatagtat 360
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 tatc 424

<210> 53256
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-D7

<400> 53256

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accctaccaa gtcgtccctg aacccgaacc tgtaccgccc gacatttgca ggatttgctg 180
acacggacat ctcgaacggc aagatatccc tgagaagcct gatcgaccgg tcggtcgctg 240
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tcggcaagga cgctcgccctc tacgtgttca acaacgggag ggcgcacgctc aaggtgtccc 360
gtctcaccgc gtgngagatg aagaagccgg tcatgaacgg ngcctgaaga tcttgaatta 420
atata 425

<210> 53257
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D8

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ccttgaaaaa aaactgttcg acttcagagg ataattgtaa aatggctatt aatgtgaaca 180
agtccatgc 189

<210> 53258
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D9

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gcgaggcatg cacagtggat cagagggaca agatcacaac ggactgcaga gagttcatca 180
agctgaaagg ccccgtcaca gcccgcgtcgt acaccgacga ctgctgcgctc gccataagag 240
cggtgcccaa tctcgacatg gagtgcacatc ttcgcctgct ctccaataaa cagaagaaga 300
agtacgacgt ggacaagatc cggcggctcg gcagcgctcct ctgcaatcca catccggtga 360

tgacgtaaaa tggggtgtgg cagtagtttc tgatggagtg catcgcggtca acaatatgga 420
gcttgaacta 430

<210> 53259
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C2

<400> 53259

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tgcgaggcaa gctgcacagc aacacggggc acggcgaggc cctccgcctc cgcctccacg 180
cttctgctgc taggctgcaa gggcgaggcg gcggcgaggc gggcgaggcg cagctggcca 240
ggccagccc agtagtccag gtgacgaggt ccgcactccg caacgggttct ggcgttctgc 300
agctgaggat agacgagaga agaagtgagg aattataata gtgatttaca aggcaacttg 360
aaagacagca gggttgcac ccacaatgtc agtcccaac agtgatagca acatgcagca 420
gctagtc 427

<210> 53260
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A7

<400> 53260

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gatatttgat gcatccaact atctacattc aacgggagtg gggcttatgc agacgggcta 180
atcatggctg agttatacat ttagacaggt gatctcacag tgacatctct tgaaacttga 240
gaggcttcat atgggccatg taacacatgt ctaagcgga atggaccact tcgctttagg 300
cgatagtgtc tacatagtta agcccaataa gatactcatg acagatagtc caaatatctg 360
attcagggca tccttacacg ccgtgacatg aacacgttac ttgttctcaa g 411

<210> 53261
 <211> 191
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-A8

 <400> 53261

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 tgccatctat gccaatgttt tacctatatg tctgtatcaa tgtttcagtt aactgagatg 180
 agattatgct t 191

<210> 53262
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-A9

 <400> 53262

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 gtgtgactta aattgtattt gttggctgta tttttacatc gttgagactg ggagaaaccc 180
 tgtttgtacc aattttattg gaattgcact acatgggacc t 221

<210> 53263
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-B11

 <400> 53263

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 tgaagaaggc aggcaatggg gccgtggacg aagtgggtga caagtgagag atgagtaccg 180
 tacagattat gatcctggta gaggtgggta cggtgaagatg gttcagaggg aactagaagc 240

acaaagagaa ctagttgact atggtggatc tttccaacca aatgcaccan cttcctatga 300
 gagaggtgag cggaagagag gatacgggga ctctcattgg aatgacagan gagattacca 360
 gcggaaacgc taccggagca gcgatgaccg gtcagca 397

<210> 53264
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B12

<400> 53264

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 gaggcgagga cctccaggca cgcacctccc tggttcggcg gctccctcga ggccttctctg 180
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 agaggggttaa agcatggtgt tgttccgagg catgccgctc aattggtaga gagcagaagc 360
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 ctca 424

<210> 53265
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B2

<400> 53265

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 aaggccgcga cggccgcgac cttcggcggg tcgatgctgg tgctgtccgg gctgacctg 240
 gccggcaccg tgatcgcgct cacggtggcc acccccgtgc tggatgatctt cagcccgggtg 300
 cttgtgccgg ccgccatcgc gctggcgctc atggcgcccg ggttcgtcac ctccggcggc 360

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cc 422

<210> 53266

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B3

<400> 53266

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aacgaaccat gtctcgctgt ccttttcgtt agctggggtg gtgtgtccct ggtctcatcc 120

caatactgaa tctgtagcgt ttcttggtcg tgcaggatca tttcaagaag aagcccagct 180

tcccgataac cctcaagtac atcgaccga cctacattat cctgtccctc cggtcgaatg 240

cttctgacaa cgtctactgc actcttgtgg cccacagcgc cctccatggc gccatggcgg 300

ggtacaccgg cttcactgtc gctccggtca acggcaggca cgcctacatc ccgttctata 360

ggatcaccga gaagcataac aaggtggtga tca 393

<210> 53267

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B4

<400> 53267

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gccgtcggcg ctgcagaccg cggcgggcag gatcagcggg gcgtagcctg cccatttcgc 180

gaggaccata taattccaag accctgatga tggccacaac tgcttatatc gatgattcct 240

gctcggaggt tattgatccc ccgaagactg aggtgctgga tgctgctgaa ctccctggtg 300

accatactca gaaccaccca aaaccgaatg ttcgggtgtc tagcagcgtg cgtgaacttc 360

tggaatgtcc agtctgtatg agtgccatgt atcctgctat tcatcagtgc tctaattgtc 420

atacatt 427

<210> 53268
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53268

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gagttgaaga ttttgaactt ctgactatta ttgggagagg tgcatttgga gaggtgcgtc 180
tttgtagaga gaagacatct aagaatgttt acgcaatgaa aaaactcaag aaatctgaaa 240
tgcttcgtag gggccaggta gaacatgtca aagctgaaag gaaccttctt gctgaagtgg 300
atagtgttta catagttaag ctctattatt ctttccaaga cgaagagttc ttatatctca 360
tcatggaata ccttcctggc ggngacatga tgactntact tatgcgcaag gacatactaa 420
cagaagatga 430

<210> 53269
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-B7

<400> 53269

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gcgcgagcgt caaggcggcc agcaccgggt ggctgcccat gtccaggaac tggggccaga 180
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accgccgcac ctccacctcc tggaacgccg ccccgagcac ctggcagttc ggccagacct 300
tcgagggcaa gaacttcagg gtctgatgca tgggatggga tgcgatggga tgggacttgg 360
gagaagaagc caaaactctt ttctttcttt ctttctttct tcttatacgt gattattact 420

<210> 53270

<211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-041-Q1-K1-B8

 <400> 53270

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 cgtggagggtg agcttcgagg tgctgccggc ggccctggcc ggtgccgaga cgctggaccc 180
 ggcgctggcc tacgacgcgg agaagctgtg cggcgtgaag cgcgcgacg tgaggggagg 240
 cgtggggccg ttccggctgt ggggtgctggc ctncggcaac cgcaaggaga gaaccgacgt 300
 gttcttcagg gtgttcaagc ccgtcncgg cagcgacaag cccgtggtgc tcatgtgcac 360
 cgaccctacc aagtcgtccc tgaacccgaa cctgt 395

<210> 53271
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-B9

 <400> 53271

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 atcaattgca agtggagttt tagtcccaga ggttgatgct gttggtgctt tctatgggac 240
 accatcttct gagcttgctg atccttctaa ggctaaggct cctatacagg ctcatctcgg 300
 ggagcatgac agttttgttg gtttttcaga tgtcactgca gccaaagtcg tggaggagaa 360
 gctcaaattc tccgggatac catatgaagt tcacatatac cctggatgtt cgcagtcctt 420
 catgaacac 429

<210> 53272
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C10

<400> 53272

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aattgaaatg aaaagaaaaa aagtactcca tctgttccaa attaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa actggaaaaa ccaagaaaaa acccaaataa ataaacttgc aaaataataa 240
cccctttaa cagctggcgt aatcccaa 268

<210> 53273

<211> 429

<212> DNA

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<400> 53273

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tattctgtag atatggatat cagagagctg atttcattgg atgatgttat ggaggagatt 180
gggttggggc caaatggcgg tctcatctac tgcattggagc acctgaaga cagcttggat 240
gattggtttg atgaacagct agagaactac ctagatgatg attatcttgc gtttgattgc 300
cctggccaga ttgaactctt cacacatgtt ccagttctgc ggaactttgt cgagcacctg 360
aaacgaaaaa atttcaacgt ttgcgttgt taccttcttg attcacagtt tgtcagcgat 420
gtaacaaaa 429

<210> 53274

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C12

<400> 53274

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gcttctgtgt tggaggacgt ttgtggatct agagggatgat ctgttgatca caatgccaac 180
tctatggtgt ttacaagaaa actaatctac tgcattggaac accttgaata cagcttggat 240
gataggtttg atgaacagct atagaactac ctgatgatg attatctaga gtacgattgc 300

<210> 53275
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G8

<400> 53275

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gtgcagtttc agctgactgt caatgtagtg gcaactgtag tgaacttctc ttcagcctgc 180
tttacaggaa atgcaccact aacagctgtt cagcttcttt gggttaacat gatcatggac 240
acccttggcg cgcttgccct agccacggag ccacctaata atgacttgat gaagagagag 300
ccagtaggaa ggacagggaa attcattaca aatgtgatgt ggaagaacat tcttggtcag 360
tctttctacc agttctttgt gatgtgga 389

<210> 53276
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G9

<400> 53276

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aatgacacta tgcaatgtga tctggaacct ggtttcttgg gtgcgacgct tgtagccgtg 180
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tcggtgtccc acctcgtctg tggcgtgggg cgctggagcc cggctctggtt ggggtgggaa 300
gccctttaa ctggtgtcac ttgcatttta ccttttccat cgcttggtat tgtgagtgg 360
cctatata 368

<210> 53277
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H1

<400> 53277

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gcgggttcgtt caagtcaaat ggcttgctac aagaggagta gaagaagaat ccatcttgca 240
agctttgcct gctgatattc gtcgggatgt gcagcgtcat ctttgattgg acctcgtag 300
acgtgtacct tttatctctg agatggataa ccaacttctc gatgccatct gtg 353

<210> 53278
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H2

<400> 53278

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ggacatggat gaggggatga gacaccgtca actcacatct catcttcaag aacgtgtgcg 180
gccgttcgtt caagtcaaat ggctcgctac aagaggagta caagaagaat ccatcttgca 240
agctttgcct gctgatatta ctacagatgt gcagcgtcat cttatgttgg acctcggtag 300
acgtgtacct tttatctctg agatggataa acaacttctc gatgccatct gtg 353

<210> 53279
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H3

<400> 53279

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 gtgcatctat gctctgaaga ttgtcgtcag cacctgcggc agtaccaagc tgctgggtgac 300
 aatttcaagg atgctagaac ttgcttaaaa gcgtgctatg cctctt 346

<210> 53280
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H6

<400> 53280

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 gccgtcaagt cggatgatgca gtccgccatc gccagggaga agcgcacggg ggcctccatc 240
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 gacacgcca gcttccaggc cgagaagatg gccaaccta acaacggctc cgtcagggga 360
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<210> 53281
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H7

<400> 53281

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 tgactctgtt ctggatcttg cacggtgcac gatcgtgtcc gagctctcca acaaggattt 180
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gacctgtggc actaccaagc tctgtgtcac aattccaagg atcctagagc ttgctgaaga 300
gctgtctatg cctcttgtctg ctgtgaagta ctcccgcggg acgttcatct ttctggcgcg 360
ac 362

<210> 53282
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H8

<400> 53282

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aggccaacag gttgagttct tcagtcatga attccgggtgc cctgtctatg tcaaagatat 180
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tggtatcaag ccaatata 438

<210> 53283
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H9

<400> 53283

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gtcgagggag agcccgatga gtgttgcagt gtcagcttgt tttcaaggac taccaac 177

<210> 53284
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A1

<400> 53284

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gcctgggctg aaggcttcag gggtggcaca gacaccggtg gccgagaaga aggtattccc 180
tgtgaggttg gggaagttca agaattgctg aacctatggt gcggtggaag gtggccatgc 240
caatgccaat gccaatgcca atgctaattc caggggtgtt actagggatg aaggggagag 300
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<210> 53285

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A10

<400> 53285

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aaaaaaaaa aaaaaaaaag acaaaaaata ataaaagatc caagctaaca agctcttaca 180
tgacgacgtc atatctcatg aggtaatgcc acctaaaatc aattcaatgg tcccatttat 240
acaacgttgg gactgcgaaa a 261

<210> 53286

<211> 289

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-A12

<400> 53286

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gctcatctnc acccagcacg acgagaccgt caccaacgac gagatcgccg ncgacctcaa 240
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<210> 53287
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A2

<400> 53287

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 cgaaataatg aatcaattgc tgatgctagc taaagtaagg ccttttgggtc aagataagca 180
 gcttatgaac tggaatcacc atcttattga ctgatttgc tcccccttat taaaacagcc 240
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<210> 53288
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A3

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 aaaacacttg tactatgttc ctgtgacctt ttggaggctt tcaacctgtc aggaatcagg 120
 atatttgatg catccaatta tctaaatcca acaaactctg gtattatgct tactgtataa 180
 tcatggtcgt attatTTTTT agtctgttga tatttcaactg gcataaattg tttcttctgt 240
 gctttcatat ccactatgta acccatgttt tattgtttgt agagaactac aatttatgct 300
 caagtcaatg ctgctcttcg caaaataaga gacacatcag agtttgtcca atcttttgca 360
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<210> 53289
 <211> 336
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A4

<400> 53289

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ccctccgccg ccaccatgtc gctgatcgcc ggggaggact tccagcatat cctgcgtttg 120

ctgaacacca acgtggatgg gaagcagaag atcatgttcg ccatgacctc aatcaagggt 180

gtcgggccc gcttctccaa catcgtctgc aagaaggccg acatcgacat gaacaagagg 240

gccggcgagc tgacgcctga tgagctggag cgctgatga cggtcgtggc caaccctagg 300

cagttcaagg tgccggactg gttcctcaac aggaag 336

<210> 53290

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-A5

<400> 53290

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aatgctcgta cagatgtgaa gcctgaccat tttgctcgtg aagctaagga gttcttacgc 120

acgaggttga ttggcaaaca agtggctggt gaaatggaat actctcgaaa gatcagcact 180

gtagatggac agagtgtgc tccaacagca aacatggctg atacaagagt tttagattat 240

gggtcagttt ttctgggttc accatcacag actgatggag atgacacatc ttctgctccg 300

agctctgcta gccagcctgg agttaatgtt gctgagcttt tgctctcacg aggctttgct 360

aaaacatcta aacacaggga ttatgaggaa aggtcacact attatgatgc tttattagca 420

gc 422

<210> 53291

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G7

<400> 53291

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaataaaaa aaaaataaaaa aaaaaaaaaa aaaaataaaaa aaaaataaat aaaaaaaaag 180
 gggggcgga tctttgtagt gatatagggt agattctcta tgactaggag tattattctt 240
 ttttgagggc ctccctaaat gagatagttg gtgatgtgaa ctatcagtgt gagtttggaa 300
 aaccctgggt gtgccccctt tt 322

<210> 53292
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F12

<400> 53292

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 agaagggcgg tggcagcggc gggagatggc cggcgggtcaa gccaagaag gatctccaga 120
 tcaatcgctt caagggcacc cacctgctca ccattccaga cttcttctact tctgcggagg 180
 cgaacgcttt cattgatatc gctgagtcga tgggcttcac gcaccacagc tgtttggggc 240
 cactaacggg tgaggcttac atagacaact aacggatatc tgtgacagat ccattgcttg 300
 gtcaagccat ttgggaatca ggaataaaca ggattcttac agacatcagc gtatctggca 360
 aattagcatc aggactgaat ccaaatatca ggttctaca 399

<210> 53293
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F2

<400> 53293

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 gcaggagct cagctcgcat caggcaataa ctatatctag ggtcatctat acacatccat 180
 gtgggaagga ttgcgaggca tggctgaaat ggatggtgca tgtactagct cgtagcagag 240

caaggcacgg agattatgag agctacaatg tgcttctcag attgacgatg cacagttgac 300
 tgaggtgaaa gagatagcga tgaccagatt ggaaaga 337

<210> 53294
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F3

<400> 53294

aaaaaaaaa ataattatac cctactttat catagaaaag atgaaataag aaaaaaaaaa 60
 gaatataaaa aaaagaaaat aataaaaaaaaa gataacatat aaaataataa aaaaatttaa 120
 aaagttaa ataaatttaatt tgatgtcagt cgattttctaa ctgaacgtgc tgtcaaaacc 180
 cttcccttgc ttaacttatt tggcttactt ttgttatggc tt 222

<210> 53295
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-040-Q1-K1-F4

<400> 53295

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 cagaccgtgg gaaggacaat tcatattgtc aatcttgatc cagctgctga gcacttcgac 120
 tatcctgtag atatggatat cagagagctg atttcattgg atgatgttat ggaggagatt 180
 gggttggggc caaatggcgg tctcatctac tgcattggagc accttgaaga cagcttggat 240
 gattggtttg atgaacagct agagaactac ctagatgatg attatcttgt gtttgattgc 300
 cctggccaga tngaactctt cacacatgtt ccagttctgc ggaaacttgt cgagcacctg 360
 anacgaaaaa atttcaacgt ttgcgctgtt taccttcttg attcacagtt tgtcagcgat 420
 gtaacaaaat aca 433

<210> 53296
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F5

<400> 53296

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aaggaaatca aactgctgg ggcagctttg gctgatgatg cagaacgac aatctatgat 120
aaatatggag aagcaggctt gaaagggtgct ggcatgggca caggagatta ctcaaaccg 180
cttgatctat tctagtcctt ggttgaagga ttccgtggta tgggtggaat ggggtggcgg 240
cttgctgtcc gtaacagacc aatgcaaggat gatgacgaga gctacactct ggtactcaat 300
ttcaaggatg cggtgttttg tgtggagaaa ag 332

<210> 53297

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F6

<400> 53297

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attcggatca ccctcttact ggtgctgagt atctttctga ttgtgccatt tctcgcctcg 120
gcatgacaag gcatgtattg cttcaccggt gaggaacatt ggggcagctt accatggctc 180
tgctcgtact acatacagat catgactggt ggtgttctct cgccggcaaa tgcagcaaac 240
caaccatgtc tttcctgtgt ggtgtggctg ctgcatatgt gacaggaaaa gaagcacggc 300
ggtgaagggt tcaactgtgc aatgcgtgat gctccgatac catgaactcc tcaccgggcg 360
cataaccatg ctaagattta tcagggttat gataa 395

<210> 53298

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F7

<400> 53298

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gcaaaggcag gcgcgccgag ggtctcggcg gccagctgg tgactctcgg gctatcactc 120

ctctgcgctg tcgccggccc ggccgccgcg cagaactgcg gctgccagcc aaacgtatgc 180
 tgcagcaagt ttggctactg cggcacgacc gacgagtact gcggcgacgg gtgccagtcg 240
 ggcccgtgcc gctcggggcg cggcggcagc agtggcggcg gtggtgcgaa cgtggctagc 300
 gtcgtcaccg gtccttctt caacggcatc aagag 335

<210> 53299
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F8

<400> 53299

cccacgcgtc cgcagcaatt atcttcgtcg gtaagatcgg tcattccgca ataggacgat 60
 ttcaggttca tggatggaat tcaaacttgt ggggtcccta aatgatttga aaatgatggg 120
 attccatcag caagcagccc atgcatggac aaacttgctg gtttcaaagc tgcgttataa 180
 ggcaatactt cttattataa tactgtaatt cagaagacac aaaacacgcc acgaaaccac 240
 gcgcgtcacg ctcatctgga agttgatgca acgaacctaa tgacgtaact gacgccctac 300
 catgcacaac ggaaattgag ccaggtatga atctcactgt agctagctct gattgggtcag 360
 tttattgaga cgatccggac gctgctattg acaaactgtc atgggggacta ctg 413

<210> 53300
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F9

<400> 53300

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aggggagaaa attttaaggg atccaaaatt aacaaaccaa 180
 aaaaaggggg ggattatttt taatataggg ccccttaaatt ccatttaatg gaccgaattt 240
 ttaaacccttg gggactggaa aacccttgag gttccccact ttatacactc ttgggcattg 300
 gaaaattttg gaagttgggt aaataccaaa agggccctaa ccaaccgctt ttccaaacgg 360

ttgaaaaccc aaaagggcaa atggaacccc ccttgaaaag gggctttaac cccgaaggtt 420
atggggga 428

<210> 53301
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G1

<400> 53301

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ggaaaggagt tctgccgcta aaaaggcctt cgcgtcctct tgtgctactg ttttgaaata 120
cgctagtcct ccccaggctc agaagcttat cgaagatact acgtctctgc attcaggtgg 180
gaaaaacgat cagttgtctg gtgcaattct tattaaagcc tacttgagca atgcatcgga 240
tattcttggt ggatataatg cgggtggttat ccctgtaatt tttgtgtcga gatttgatga 300
tgataaagac accagtgcctt tatatgaaga actttggg 338

<210> 53302
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G11

<400> 53302

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acaaatttat tattcctgcg attagcaatt atgctggggc gttcttcac cgtctttttg 120
cttccatctt cgccactggt attttgagc ttcgatggag tgggtgttggc attgaggatt 180
ggtggagaaa tgagcagttt tgggtcattg gtggcacctc tgcacatctc tttgctgtgt 240
tccaaggtct cttaaaagtg ctagcagggg tgcacacaaa cttcacggtc acatcaaagg 300
caaccgatga tgatgggtgac tttgctgagc tgtatgtgtt caagtggaca actcttctga 360
tccccccac cactgtgcct gtgattaacc tgggtggtat agtggctgga gtgtcgtatg 420
ct 422

<210> 53303
<211> 140
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G12

<400> 53303

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acctcgctag tggccggctc accctggcta ggatgcacac tcacgcgatg cggatatttc 120
ccacgcgtcc gaaactatga 140

<210> 53304
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-G2

<400> 53304

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tgccatgtaa cattacgaag cttttatcaa agctacgact tctgcatgaa tttcaagaca 120
gcagtgcgca gacggatctt ccttgccta ctgctggatc accgacattg cggatgtcag 180
cgctcagtga attgcagaac agtctttcaa actgatgcgc taccatttcg tattggaaaa 240
caaggacaag cggttcggcc cagaagtgtt ttagtactcg agctgcatgc aggccattt 300
agcacgatct ggctatgact tcctacatgg ccagaagcc gtcgtctact gatcgctcca 360
gcttcttctt ccttcgctgc cgctgggctg gtaacattca ttcgcggacc atnctgcctc 420
gatcgaagtt agcg 434

<210> 53305
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G3

<400> 53305

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tcattgtcaa gctcaaatgg agacgctcag tgccgaactg ataagattgt cttcaagctt 120
 tttgacaaaag ttcccagtgga ttacccccca gttttgcggt cacagattct tggttgggtg 180
 tcaagtagcc ctactgatat agagagccat attagacctg ggtgtattat tctaacaata 240
 tatctacggt tagttgagtc tgcattggca gagctttctg agaatatgag cctgcacctg 300
 gataagcttt tgagtagctc cactgacaac ttttgggcat ctggcttggt atttgtgatg 360
 gttcggcgtc gcttagcttt tatgctcaat g 391

<210> 53306
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G5

<400> 53306

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 aaaactgcag aagttaaaag gcaaacacaa ttgataagt ccacggaagt tggtagagcc 120
 gatacaacca aggaaaatga ggagaagagc agcagtgttc cagaaatact caacgcagca 180
 tgtagtaaca aggagaaacc caacaaaatc gcaacagacg gatgatgcct tggctagttg 240
 actgggaaaa tgagatagct tctggaacgg acttcaactt gaattcctga aatcataagt 300
 tcgatgtgcg caatgtcaag aaaccacaat tggatcatggg ttctctggca ttttctcatg 360
 gaagtgaag 369

<210> 53307
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G6

<400> 53307

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 ttcagaatct tcagacctgg ccagctgaat actgttttac cataccgata gatgttcaat 120
 ctgttaatac tgatcgtgca attattactt gtcttggttag gctgggattg cgaagaaaga 180
 gaacatcaag attcacgggt tctaaggagc ctgtaaagtc ttgtgcccta tattgtgtgc 240

ctccacatat tggggagctt gaagcatcga cagttactag tcattgctta cttatataag 300
aacataagta gtatttgcta ttgtcaagtg tgccttgctt gatgcaagtt gtgttttcgt 360
atcattatta ttatgcacgg tcatcgtacg tgtatggctt gtatgggtta ttgccaactt 420
aat 423

<210> 53308
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D4

<400> 53308

cccacgcgtc cgaaaaaaaa aaaaaataat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaatataa acaaattaat 180
aaaaaaacttt aaaaatacaa aattaa 206

<210> 53309
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D5

<400> 53309

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tctggtgctc tctcataaa ccgcacagca agtcctcttg cttggtttat ggagtgaag 120
gaccggacca agcggagttc tgtgatgttg ccatacactt ttctgccaac aatggcaaca 180
aggaaactga gggatgcagc aaacaagatg aaagagatac ttggtgacta tgatgctatt 240
catgtgagac gaggtgacct actgaagaat aggaaagata gatttggagt tgagcgaagt 300
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<210> 53310
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-D6

<400> 53310

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ccctgttctt tgggcatgga gctgatcaca aatgtcaccg agtacgagaa gctcggaag 120
gagaggctgc cgaagatggt gtacgactac tacgcctccg gcgcagaaga tcagtggacg 180
ctcaaggaga accgggaggc cttctccaga attctgttta ggccacgggt actgatcgac 240
gtctcccgta tcgacatggc cacaaacatt ctgggcttca gcatttccat gcctatcatg 300
atcgctcctt cagccatgca gaanatggct catcctgatg gagagcttgc cacggcaaga 360
gctgcagctt ccgcaggaac aataatgaca ttgtcctcat ggtctacttc cagcggtgaa 420
gaggtcaact cagttggggc 440

<210> 53311
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D7

<400> 53311

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gagaatgcct tcgcctccta cggcgagatc ctcgactcca aggtcatcac cgaccgggag 120
acggggaggt cccgcggctt cggcttcggt accttctcct ccgagaactc catgctcgac 180
gctatcgaga acatgaacgg caaggagctc gacggccgta acatcacctg taaccaggcc 240
cagtcccgtg gcggtggcgg tggcggcggg ggctacggcg gcggtcgcgg cggcggcggc 300
ggttatggtg gcgggcgccg tgacggcggg tatggcggcg gtggcggcta ccgcggtcgg 360
cgcgaagt 368

<210> 53312
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D8

<400> 53312

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 actaaaattt atttaggggc ttatcatttt gttaagaatc atttggatgg tgaccatta 120
 ccatctctag ttgtggctcg ttattgcata gaagctagcc gacagtggaa gatcggcttt 180
 gtacagggat gttcgaaact tcgaatcagg ttatttgtgg tgtatatata atgccaaatt 240
 accaatcaca agaagtaaaa aaaaagtcac tcaactgtc 278

<210> 53313
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D9

<400> 53313

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 gaattgatct tgctgtatat gagactttga aagatgtgtc gaagacatat atactgaagg 120
 acagtgatcc tggctctcta gtacagcttg gttgtgggac ggtctctgga gccctagggg 180
 caacatgtgt ttacccttta caggttatca gaacaagact gcaagctcaa caagccaatt 240
 cagaatctgc ctatagagga atgtctgatg tcttttggag aaccctacat catgaggggtg 300
 tttctggatt ctacaaggga attctaccaa atctccttaa 340

<210> 53314
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E1

<400> 53314

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 accaagatat tagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc 120
 attattccac aatgctcact tgctcctagt gccattatc cacagttcct cccaccagtt 180
 acttcaatgg gtttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg 240
 gcgagcgtct tacaacaacc aattgcccaa ttgcaacaac aatccttgcc acatctaaca 300
 atacaagcca tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc 360

atggt 365

<210> 53315
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E10

<400> 53315

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tactctgcga aatgctgaat acaggctttc ttttgaaaga aatctagaac tgcctgaaga 120
aggtgtagaa tgcctaaaaa gtgatgtcac tgaagataat catcataaca tcaatttggg 180
aagacctgtc actattttta gattatccga agaagacatg cctcaggacc ctggaaaaac 240
cgatgaagca tcatcttatg aaaatatggg agaagagctt ggtgacttaa caccacaggc 300
agaggagtat attattcaga tgcaatctca tttgaatgcc atgaaaaagg agttacatga 360
tctcaggaga aagaattctg ccttacagat gcagcagttt gttggggagg aaaaaaacga 420
c 421

<210> 53316
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E12

<400> 53316

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taataattcg tgtgaaaaag ttgattatat ggttcctgac aaaaaaaaaa aaaaaaaaaa 120
aaaaacaaaa aaaaaaacaa aaaataaaca aactaaaaaa aaaaaaaaaa aaaaaaaaaa 180
gacaaagaaa tactgcattt acgaaaaaaaa acgaaaaaaaa ggcattt 227

<210> 53317
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E3

<400> 53317

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gcaaaagaaa ctcagggtgcc cacacaaagt gctaggtttg ctattcttca cagttctgat 120

tttttagcatt taaccaaagc gtttgtgtat ccttaaaagg agagtgtttt ccaatgcttg 180

aacttttgta gtaagggtgt gctacatcaa atccagcgtg tttaggatac tgctacatac 240

atcaaatcct aaagcctcct agaatctgtc attaggaatt tttagagatg ctgacatact 300

tagatttttc tctctttttg gggacattct tgatcaaata agtaattatt gcttgtgtag 360

tagactagag tgggctggat taaccacacac ttaaaaaaac cggaagg 407

<210> 53318

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E4

<400> 53318

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acctgtaccc caaaccactg acccaggtgc gccccgagcc gtcgtcctgg cagctctccc 120

ggaggcccat cgaggaaccg cgcggggaga tatggcgctt ctcgaggagg ccgagcgagg 180

acgggacctc tgatgccatg gaagtgcacg ccgtcgcccc gagagagagc aagaaggcgg 240

cagagggccg cggggacagg ttcggcatcc cgcggtgcat cgaggtgatg agcgccatgg 300

cggagctgtc gccggtggag aagtcgctgg cggccgacgt cttcttgga cgcagcaacc 360

gggagatctt cctctcgctg agtgtagata ttaggccaat ctg 403

<210> 53319

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E5

<400> 53319

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tctctgtgta tatgatgggtg cccattctgt cagcaatcca attgaatctg ttgttgagaa 180
acagaagcgt ggttctgatac ttttctgtac tgcttgtgag atggctgttg tctggataca 240
gaatcagctc cgtgaaaaca tgacaaaaga actcattttg aattatgcta atcagctctg 300
tgagcgtctc cctagcccca atggcgagtc aactgttgat tgccatcaga tctcacagat 360
gccaaatctt gcattcacca tagcaaacat gactttcacc ttaacaccag agcagtacat 420
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<210> 53320

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E6

<400> 53320

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cggcgacggg atttcggtgg caggccgggt gaagtgaagt gaatcctgaa ttgaagggtcc 120
tgacatgtgg gccggggcag gccggactcc aataaaaacc agataaactc atgtagagct 180
ccttgatcta tctacttttg gcttttcttc cgttcctctt gtcacacct agcttttctt 240
ctttcatcct tctctgattg gttgtttata cacaaacaca gacacggtag cagatagaaa 300
aacttggcat ttttgcgttt gcacagagtt gattcgggtg acatcagggg tgggtttgag 360
aaggacacgc ggattttttt tttctctcaa tg 392

<210> 53321

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E7

<400> 53321

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gccatcatcc tgctccgct gggggtgttc ctcaagtacg ggtgcgggca cgagttctgg 120
atctgcctgc tctcacctt gtcgggtac atccccggca tcatctacgc catctacgcc 180
atcaccaaga acacctagct agtcacctt gccgactacg atccatgtct atgtatctgt 240

gtctgatcat atgcctgatg ccgacttggtg ctgtatgtcg ttgcttgaat tcagtcgagt 300
tcttgggtctg ctaccgtacc caccctatgc atcatctgtc accgcgacgc agtaatcata 360
gta 363

<210> 53322
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-E8

<400> 53322

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aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
taaaaataaa taataaataa aattaaaaaa ataaataaaa aaaataaata aaaaaaatat 180
aagctattat caagatctac taaatagtaa tattttggta ctattatcaa tgtctatgta 240
tctgtatatg ctcatattct tgatgctgaa ttgtactgaa tgatgttgct tgaattcaat 300
cgtgttactg atgatattgc ctattcaata gatgcat 337

<210> 53323
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-F1

<400> 53323

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gagggttttgt ctgatgatga gaagcgatca atctatgata aatatggaga agcagggtctg 120
aaagggtgctg gcatgggcac aggagattac tcaaaccctg ttgatctatt cgagtcctctg 180
tttgaaggat tcggtgggat ggggtggaatg ggtggcggtc gtgctgtccg taacagacca 240
atgcaagggtg atgatgagag ctacaatctg gtactcaatt tcaaggatgc ggtgttttgt 300
gtggagaaaag agattgagat caccagatt 329

<210> 53324
<211> 317

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D2

 <400> 53324

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 tagctctgac ttactgtcgc acgtacgctt gtgagacacg cgagaaggca cgaacgatta 180
 gcttatacat tgacttggag cggcatctga gggtccaacc atcataagag agatgatggt 240
 acggaagagg gagcgcgact gccagaacac gatgcgcatg acgacgagca tgacggacta 300
 cgcgctggcc gacgcgc 317

<210> 53325
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B8

 <400> 53325

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 ccatggcgag tgagacggag accttcgcat ttcaggctga gatcaaccag ctgctctcac 120
 tcatcatcaa caccttctac tccaacaagg agatcttcct ccgcgagctt atctccaact 180
 cttccgatgc gctggacaag atcaggttcg agagtctcac tgacaagagc aagctcgatg 240
 cgcagcctga gcttttcatc caccttgtcc cagacaaggc cacgaacacg ctctccatca 300
 tcgacagcgg catcggcgatg accaagtccg accttgtcaa caacctcggt accatcgcca 360
 ggtccgggac gaaggagttc atggaagctc ttgctgccgg cgctgatgtg tccatgattg 420
 gccagtcgg cgtcgggttc tac 443

<210> 53326
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B9

 <400> 53326

aaaaaaaaa taattaaaaa aaaaaaatat aaaaaaaaaa aaaaaaaat aaaaaataa 60
gggaggtcaa tctagaa 77

<210> 53327
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C1

<400> 53327

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cacaccagtg tatagggtat atgcttgctt gagcgtgtta ctgtcggaaat ggcaggaggt 120
ctgttggtcca tggagtactc atggctcctct gtttttggca ttataggcaa catcatctca 180
tttctggtgt tcttagcacc attgccgacg ttgcttcgtg tgtacccgaa gaagtcgacc 240
gaggggttca gctcgggtgc agatgcggtg gctctggata gctgtac 287

<210> 53328
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C11

<400> 53328

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tcgcgcgggc gcggcgccgg ccggaggagg agaacaccgc cgtcagcacg tcaccgtggc 120
gtgcggtggt ctgactcggc cgagtaccag gcccggtgccg tgcgcagctg gccacggcc 180
cgggacgccg aggcgcgggt gacctgctgc agctgcgggc ggctcttcgt ctctcgtgcc 240
gactgggctc gcggggccgg agtgcaactg gtggggcgct gccgcgcggc agcatgcgac 300
gccgaggcgg acgaggagcg ccagggccga ggtcgcgcgc gtgcccacgg gcaaggggaa 360
ccgcgagctg gtgagactgg cgctcacgcc gtccgtcgtg cgc 403

<210> 53329
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C12

<400> 53329

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gctctctttg acagcgctcag tggcgcgcaa tctccaatgg cgactgtccg tcgctacggc 120
tgtggaggtg tgcgtgaagg ctgctgtcgg ggctcctgac aagcttggcg actgtccctt 180
ctcacaagg gtgctgctca ctctggagga gaagaaggtc cttaccgga tgaggctcat 240
tgacctcagt aacaagcctg gatggtttct gaagatcagc ccagagggca aggtgcccgt 300
gtacaacagc ggcgatggca aatggattgc taattctgat gtgatcacc aagtcacga 360
ggagaagtac ccagccccgt ctctggcgac gctncagaa tacgcatcag tgggatcg 418

<210> 53330
<211> 387
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C2

<400> 53330

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tccatttggt aaatattgcc ctgccgattt atggctgtgg ctagtgaacc ttttgcagcc 120
gttatttgtc cactgtcagc aagctcttaa ttattcatgg tccagtcttc ttcatgaggg 180
tcgggctaag gttcctgaca gcattggtaa tctttctggg tcagaactga aggtagaggt 240
aatggaagaa aagttgctac gtgacttgac tcgtgaagta tgttctgtcc tttgggcttt 300
atcatcacca ggcttanata atggactttc atccttggaa caacttggac cttncaccg 360
atggattctg ttttgaagaa tctggag 387

<210> 53331
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C3

<400> 53331

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tcttcgtcct ggcgagcaag ggcgtgtacc ggcgtcgtcag gccagcctc tgcggctaca 120

cctgccccgc ggagagaccg gcgaccgaca acggcaccgc gccaggcca ggcggggcgt 180

cgtcggggcg tcccgccgcg acacggctag ggaggtcggg ggcggcggtg gcggtagctc 240

tggcggtgat cccgtgtgtg ctgttactgt gaccttcaga tgtgtgtctc gtgcgatgta 300

gtaggatcag tcgtagctga agctactggg agctggaaga gtacatacgt atagcgtgag 360

taacgaacac tcaaaaacag ntgtgctatg tggatgcctc ttgacaagac aaagagcaat 420

gggtag 426

<210> 53332

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C4

<400> 53332

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ccgcccaggc gccgtccgac gtgctcgacg ctagcggcgc gtgcgccacg gtggcgcaga 180

ccgctgggtc cgtctccacc gcctgcgaca tcgtcgctag gaaagagagg catgggatgg 240

tcgtgtcttg ccccttcctg ctgtacctcg tctcgtcgca ggataaggcc gcgcagggtgc 300

gatcgatatg caaaccctg aagcctcttg ggattcattc agtgagcttg catcctggcg 360

catccattga acaccagatc tctggactga aaacttgtga gccggag 407

<210> 53333

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-040-Q1-K1-C5

<400> 53333

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cacaagtggg cgagcggcgg cgcccttcac caggtcttcg tcgggccctt caccggcgac 120
gagcatccac cagaaacgtg gagctcagag cattgggtgcc tctttcctct ttcaccaagg 180
attccggtgc cttatttcac aagacaaaaa aagtctcaag ggtcttgatt cttgtatgaa 240
ctcaagattt atggtggatc ttggagctgt gggatgctaa gcctgggtcta gctactagat 300
tatgaactct ctgctgatct aatagcattt ctacaagaaa ttctttgctg gaaggtttat 360
tagttatntg caacaatgaa ggaacatcta atgctnaata ttgatgacct aagcattctt 420
gagcctaacg aggtcattgg 440

<210> 53334
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C6

<400> 53334

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gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca 120
gcacctacgg cgaggtcctc gagtccaaga tcctcctcga tcgggagacg cagagggtccc 180
gcggcttcgg cttcgtcacc ttctccacgg aggaggcgat gcggaacgcc atcgaggggca 240
tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccag tcccgcggcg 300
gccgtggagg cggcggcggg gggtacggtg gtggccgt 338

<210> 53335
<211> 375
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-040-Q1-K1-C7

<400> 53335

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acaactacta ccattcagcc agctagctgg tgtgagccct gctaccttct tgatacaacc 120
acagttgttg ccgttctacc agcacgctgc gcctaacgct ggcaccctct tacaactgca 180

acaattgctg ccattcaacc aacttgcttt gacaaacca gcagcgttct accaacaacc 240
catcattggg ggtgccctct tttagatttc ttatgagtta tagttcaata ataaagtttt 300
ttgtctgatg tttgtggctt cccagaaata agaaagtaca tttctagatt cttaaaaaaa 360
aacnaaaatt caaaa 375

<210> 53336
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C8

<400> 53336

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ccatgcagct ggcgaccaag cctcccatg ctctccctc accttggag ctctcccatg 120
gcgtctcccc ctctctacg gcagcaagg gtaggaccga gagatgatga tcgagctagt 180
gatgtggtgc caaccacaag atgcagtcgg tggacgacc aaggaaggat ggacttaacc 240
agtggatgct cgccaagcga gtacctcccc agcaaact ctctaagtgt taaattaaag 300
gtactcctta ggatgattgg ttgatggtgc gacttggcct tcatccctgc caccgggata 360
gatggctgag tgggttactg cttccgcagg agaggaccag gaggagtagt gtggccaggc 420
ttcggcatgt tactcgggtc ttctc 445

<210> 53337
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-C9

<400> 53337

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aactgctcta ttcttcaaaa caaatggcga ccgttccagt taaccctaaa ctttttctga 180
acaacctgac aggaaagcct gttattgtca aactcaagtg gggatatggag tacaagggtt 240
atcttgcttc tgtggactca tatatgaatc tccagcttgc caaactgat gactacattg 300

atggtcaatt ctctggaaac ctgggagaga ttctgatcat gtgcaacaac gtcattgta 358

<210> 53338

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D1

<400> 53338

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aggagctgga cggccgcaac atcacctgca acgaggccca gtcccgcggc ggccgtggag 120

gcggcgccgg tgggtacggt ggtggccgtg gaggcgccgg ctacggcggt ggctggcgcc 180

gtgatggcgg tggcggttac ggcagtggct gcggctacgg tggcagcggc ggctacggtg 240

gtggtggcgg cggctacggc agtggcaacc gtggctgcgg ctacggcaac tacgaccgga 300

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<210> 53339

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D10

<400> 53339

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ggctaggggt agggctccag ctccccgttg cctgggcgag ccgagtgatg gccgcccctg 120

ccccctccgg cgcagctagt gccgccgctt caccgtcccc gctgatgcag ctgccgtcgc 180

cgttcgcgga gctcgtcaag ggccccctccg gcctcgagaa ggtcgtgctt cgcggcgctc 240

gcaactgctg tgccgagatt tatctttatg gaggtcaagt aacatcatgg aagaatgaca 300

atggggaaga cttgcttttc ctcagcagca aagctatttt caaacctcca aaagctattc 360

gtggtggtat accaatctgg tttccccaat ttggat 396

<210> 53340

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-D12

<400> 53340

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aagatgacac ttgagcgtgc gctcaagcta ctaagcggta aaagtgtcag acgaatcgg 180
cgaccgaagg ggaagggtga aaacaaggaa cccatggaat ggcattagct ggctgtactc 240
gctacaagat cctaaacatg agtggatcga taggcaggga gccttatatg catgcaatga 300
atccagagtg aagccaatat tcatatgact ccgacgttca gcctttggag tgcttaactg 360
attatgacga gagg 374

<210> 53341

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-040-Q1-K1-B7

<400> 53341

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cgataggaag tttggtgctc gcgtgttgac gggttgattt cgggtgcgccg atggggcagg 120
cgttccgcaa gctgttcgat gccttcctcg gcaccagcga gatgaggggt gtgatgcttg 180
gtctggatgc cgccggtaaa accaccatct tgtacaagct gcacatcggn gaggttttgt 240
cgactgttcc cacgattggg ttcaatgtct agatagttca gtacacgaat gtgatgntta 300
ctgtttggga tgctggtggc caagaaaagt tgaggccctt gtggaggcac tacttcaaca 360
atactgatgg cttgatctat gtagctgatt ca 392

<210> 53342

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A12

<400> 53342

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 ggggcctaag cttatcaggc cccaaggtta tctacgctgg cttgcacatg ttaccgcttt 180
 agacttcgat gtcactctaa tttcaattga catgccccatg actatcaaag gccagactga 240
 tacaaccttg attgtcccga agttaatcac attgtacaga ttgccttttg tccagttggc 300
 ctattaccga agaggccatc gacgatcggc cttaccagaa tttggactgc ctgaatgcct 360
 attg 364

<210> 53343
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A2

<400> 53343
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 tcctcctgtt ccgcgaccac cgatgctcca ggcttgggag tgggagcgag agagatggtg 180
 gcacgggacg accccaagtg cgaggagatg gtgccttgca ccttcaggcg ctgcatccag 240
 tactgctgca gcatcgggct gcagcccaag gggttctgca actccaagcc caacatgcag 300
 gtctactgct gctgcgtcat cccttagcat catagctcct cgtcaacaca cctaaat 357

<210> 53344
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A3

<400> 53344
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 gacgaaggta agatgttcct gcggaggatc ctgaccggcg ggggcggcct ggcggccctg 120
 agggcgggcg gcgccgtgaa ggagacgacg gggatcgtgg gccttgaggt ggtgcctaac 180
 gcgcgagagg ttctggtagg gctctacgag cgcacgctca aagagatcaa ggccgtcccc 240
 gaagacgagg gttaccgcaa ggccgttgaa tccttcaccg gtcaccgcct ccagatctgc 300

caggaggagg aggactggaa gcgcacacgag gaccgaatcg gatgccggca ggtcgaggag 360
ctcatctagg aagccgagga cgagctcaag ctcatcgcta aaatgattga atgggatcca 420
tggggt 426

<210> 53345
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A4

<400> 53345

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agggcgggcg gcgccgtgaa ggagactacg gggatcgtgg gccttgaggt ggtgcctaac 180
gcgcgagagg ttctggtagg gctctacgag cgcacgctca aagagatcaa ggccgtccac 240
gaagacgagg gttaccgcat ggccgttgaa tccttcaccg gtcaccgcct ccagatctgc 300
caggacgagg aggactggat gcgcacacgag gaccgaatcg gatg 344

<210> 53346
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A5

<400> 53346

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cccaggggcg gctgttcacg gtggagtacg ccatggaggc cgtcaagcag ggctccgcct 120
gcgtcgggct ccggtcgagc acccagccg tcctagccgc cgtcaacaag cccgcctccg 180
agctctcttc ctaccagcgg aaggtgttcc gcgtcgctga ccacgccggg gtcgctctcg 240
ccggcctcac cgtcgacggc cgcgttctct cgcgtttcct ccgcaacgag tgcacatcaacc 300
actccttcgt ctacgaggcg ccgctccccg tctccaggct cgcgctcaag c 351

<210> 53347
<211> 371

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-040-Q1-K1-A6

 <400> 53347

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 ggcggcgctg tgcctgaaag gcgtgccgta cgagctgata ctggaggacc tgttcggcag 180
 caagagcgag ctctgtctcc accacaaccc cgtgcacaag aaggtgcccg tgcctcctcca 240
 cggcgacggc cgggccatct ccgagtcctt cgtcatcgcc gactacgtcg acgaggcctt 300
 cgacggggccg ncgtgtctcc ccgccgaccc ctacgcgcgc gccgcggccc gcttctgggc 360
 cgacttcata g 371

<210> 53348
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A7

 <400> 53348

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 gtgctccgct catgttagag aacccccctgg gaaaacgcag cggagaaact ctggagatcg 120
 aaaccccgcc acgcagctag gcgaactgca cgcaactgca ggtcgacgtc tgatccattt 180
 cttgacgctt cagcttctgg tgctggctct cttccagttg catgctgggt acctgtgtca 240
 aggggcgggt ggtgtctggt gtagttggag ggcagagctt cgcgggcggc gaagaagaag 300
 agcagcagag agactctgct gacactgacc gtaggagata tggcgaggaa gctgagagag 360

<210> 53349
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A8

 <400> 53349

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aagggtaaac gattagatga cgagaggatg atgctatatt tatcaagtcc gcagcgctc 180
tcttgtggtg gcccgcgaca cacgtggggt gattgacagt gacatcgctc gctctaagat 240
aggttttggt tcttccctgg cccccgaaa tcatcacctg gcgccgccac attcgaatgg 300
agatggatct gctgtcatca tcttgcttcc tattttgtaa agcttttgct gctgagtata 360
gtggtacctt agattgtcgt ccatttctgc cctgttttcc gggcagctat ttgtagtgta 420
aaatatg 427

<210> 53350

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B1

<400> 53350

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ggttctgcac tgctctagcg tgggctaggt tcaatcatga tcctgctcgt gctcgcgac 180
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tggcggcacc actctggtcg cgctcgcagt gatgctctgc ttgcacttcc tgcttgcctat 300
gcttctatgg agttattcat ctgtcgcgtt cactgacctt ggttctgttc caccagatcg 360
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<210> 53351

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B12

<400> 53351

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aggacctgga gagagaggtc ggcattggct cgcagtggt cgacgacgct ggtatggacg 120

ccgtccagaa gcgcctcatg ttcgaagacg aatgcatttt ggtggacgag caggacaatg 180
 ttgttggcca tgagtcaaag tacaactgcc atttgatgga aaagattgat tctgagaatc 240
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<210> 53352

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B2

<400> 53352

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 tgaagggtg accatcttgc gttcagagaa ggtcaaggat gagcttggtc ttgaaggcaa 180
 tgatgttgag cttgtctctc gtcgcgtgc tctcataaac cagaaatgcc atgtcaagaa 240
 gaaggatatc cggaagttct tggacggtat ctatgtgagt gacaagggcc ccatctttga 300
 tgagcaatga gctgcccttt gttcctggct agcacaagcc gtgttaggct gtggccagta 360
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<210> 53353

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-B3

<400> 53353

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 acccccatcg ccgacaagat gcagatcttc gtgaagacct tgacggggaa aaccatcacg 120
 ttggagggtg agtcctcgga caccatcgac agcgtgaagg ccaagatata ggacaaggag 180
 ggcatcccg cggaccagca gctgctcatc ttcgacggca agcagctcga ggacggccgc 240
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 ggtggcgctc agaagcgcat gatgaagacg tacaccaagc ccaag 345

<210> 53354

<211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B4

 <400> 53354

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 ccaccactgc gtcgaaagag caatgcatca caactgcccc gtctgctttg agtatctgct 120
 cgactccacg aaggacatca gcgtgctgca atgtgggcat accatccatt tggagtgcac 180
 gaacgagatg agagcacacc atcacttata atgcccagtg tgctcgaggt ccgcctgcga 240
 catgtcggcc acatcgaga agctcgacga ggaggtcgcg gccacgccga tgctgacat 300
 ctaccagaag cacatggtgt ggatcctgtg caacgactgc atcgc 345

<210> 53355
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-B5

 <400> 53355

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 atgacaatta gactggagg atgccaagta ttcaaagggt gcattattat aatgccaaca 120
 gagcaattac tgtcttcacg atgccaatag tctgaagtcc gatgaatcga gtgccaaaat 180
 tgcaaaaatc tctccatcat gcgggagtta gtttcatttc gcaacagcag tgattcttag 240
 gttcttattt ctggtggcta tggtagcact tatccattaa cgatgtcatt atcac 295

<210> 53356
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A11

 <400> 53356

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cagagaccaa ggaggtcttg gtcgacttca tctatgagcc gccccagcag ggcttcgagg 180
acgtgggtcca tctcatgagg gatccccgacg aggaggccccg cgtcgatacc attgccgagg 240
ggcttgggat gcgccgggtc ggctctgtgt tcacgcaggc cgtcgggagg agggccagca 300
agactgggtga gtacactatg tccaaccggg aggttgtgca tgcggcccag ctgcaggctg 360
agggcgggac cccggagtgg gttactgcc a tagtcaaatt ggaggtgggg gatgacggca 420
ctggggatgt gc 432

<210> 53357

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G11

<400> 53357

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tcagcatctc actcaggaga ttaatggagg acgagtctgt gaaggagcgc ctctgccagt 120
cgatccttgt cactggcggg agctccctgt tccctggcat gatccctcgg ctggagtctg 180
ggatacggca atatcgcccc taccttgctc ccctgaagct tgtcggagca gctgacccca 240
ttttagacgc gtggaggggt gctgccgtct ttgcccgcac aagcaagttc ggcaaacaaa 300
cgttcagcct agctgattac ggacagcatg gagagaacct gtttcatcgg tacaacattg 360
tttactcact ataaccggaa aatgacatag tgatcgaacc atctcagtca ggctatttat 420
ttaa 424

<210> 53358

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G12

<400> 53358

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gggtccgcgg ccgacgcgga gcaggagcaa aagcgggcag cggcggcggc gtacgactac 120
gagggcgacg cgcgctgggc cgagtactgg tccaacgtac tcgtcccggc gaacctcgcc 180

tcccgacccg acgtcgtcga ccacttgaag cgcaagttct accagcgcta catcgaccat 240
gatctgggtcg ttgagccaag gtcattcacc agttccactc aggccagcat gccagatgta 300
aagtcttcgt cttegtcatc caccgaaaac gtcagggagc gtaattcatg atctact 357

<210> 53359
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G2

<400> 53359

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gtcgacaaga ggaaagtgtc caccgacgaa ggagaagcca aagcacagga gcatgggtgct 120
atgttcatgg agaccagtgc aaaagctggg ttcaacgtca agcccctgtt ccgcaagatc 180
gctggatccc ttccaggact ggacgcactt tcgtcaggaa agcatgaaga catggtcgac 240
ataaacctca gacctgccag cggttcgtcg gcttcaggtg cagccgcgca gctggagcag 300
aaatcaagcg gttgtcctg ttgagacttc gacagttttg tggtcagaga agctacagca 360
gtactgcaac atcgagttaa gtactttcag agagattatt accaagagtg tgtttttgt 419

<210> 53360
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G3

<400> 53360

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gctgccaggt gtcaagatat cggaacctca tggagccttc tatttattca tcgacttcag 120
ctcgtactat gggctctgagg tggaagggtt tggtaccatc aatgactctg agtccctctg 180
tctgttcctg ctggagaagg cacaagttgc gcttg 215

<210> 53361
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G4

<400> 53361

aataaccact gttccgggct cccatgtcac tcgctttgag ctgcctctat accgtcagtg 60

ggggttcccg attggctggg ttctaggctg a 91

<210> 53362

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G5

<400> 53362

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cggccgcgac gaggtgcggc gcgccatcct cgaggccggc aaggagatcg gcttcttcca 120

ggtggtgaac cacggcgctc ccctggaggc gatgcaggac atggagacgg tgtgccagga 180

gttcttccgg ctgtcggcgg aggacatggc cgggctgtac tcggaggaca cggtgagggc 240

gacccgatc tactccagca ccatgttcga cacgggcgcc tagaagtact ggcgcgactg 300

ccttcgtctg gcttgettct tcccc 325

<210> 53363

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G6

<400> 53363

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agggcgggaa gggcctgggc aaggcgagg cgaagcgcca ccggaagggtg ctccgcgaca 120

acatccaggg gatcacgaag ccggcgatcc ggcggctggc gcgcaggggc ggcgtgaagc 180

gcatctccgg gctcatctac gaggagaccc ggcggctcct caagatcttc ctggagaacg 240

tgatccgcga cgccgtcacc tacaccgagc acgcgcgccg caagaccgtt acaggcatgg 300

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tgctgtcgc gct 373

<210> 53364
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G8

<400> 53364

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 ggaacttgag cttttcaatc ctactgatgt cgatttttat gttgatgttg ctgtgcattt 180
 ggatgacacg gatgtggacc aagatgtaat ttcagactga gatgctgctt gtcacaaaac 240

<210> 53365
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G9

<400> 53365

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 ttgggacctc gagcacggat aagaatgtac ttccctactg aagggtcaca gtataccctt 120
 ccacactgct ctgtcaattt cttttggaag gattattgtc ctatggtttt ccggaacctt 180
 cgagaaatgt tccacattga tgctgcagat tacatgatgt ccatatgtgg tgatgacagt 240
 ctgaaagagc tttcttcacc tgggaaaagt ggcagtatgt tctatctttc acaggatgaa 300
 cgttttgtca taaaaacctt gagaaaaact gagttgaaga tactgttgaa gatgctacca 360
 aaatattaca atcatgtcag agcttatgat aatacgct 398

<210> 53366
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H10

<400> 53366

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tgctcgtcca aggcgtttgt tgctggcttc gtggcatatt tgctggacaa cactattgac 120
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 tacaggaccg atacaagaag cgaggagttc tattccctgc cattcaatct gaataagttc 240
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 gccaccccc tggtctcgg cggtggcacc gtgatctgga ttttctcgg acatgaaaaa 360
 attactgtat attaaaaccc gctcagctcg ggtttcaccc 400

<210> 53367
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H11

<400> 53367

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 gcgaatgagg tggtctgtcg catagagagg tccaccacgc tgaagaagct gatgaacgct 120
 tattgtgacc gccagtctga ggacatgaat gccattgcgt tctgtttga tggccgcagg 180
 cttcgcggcg agcagacccc tgatgagctg gagatggatg actgcgacta gatcgacgcc 240
 atgcttcacc agaccggagg cagcgttcct agcaccacct aaaagcctcg ttttgccttc 300
 cgtcctgcgt agtactaaac aaaagggaaa aagtcttttt aaggaacttg tgatgctctg 360
 gtccttctg ccattgctga gggacatcct tagcctttgt ttagtagtat ggtttggtag 420
 tatgttctgt catcactcgt ttatctatcc ctaatacat 459

<210> 53368
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H12

<400> 53368

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 gagataaaaa cagcacctgc tgacttccgc ttccctacaa caaaccaaac aaggcattgt 180

tttactcgct atgtcgagta ccacaggtgt ttgaatgcc aaggggatga tgctggtgtt 240
 tgcgaaaaat ttgccaaagta ctacaggtcc ctttgccctg gagaatgggt tgagaaatgg 300
 aacgagcaga gggagcatgg gacg 324

<210> 53369
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H2

<400> 53369

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 aagcctttct tgcttgaaga tgggcgccta ctgtgttgat catcagttga aagttggaat 120
 tcttgggggtg catggcttga ggtattcaga ttgttgtttg attctatctt tgcattctctt 180
 tgtaccctct ctgttagaat ggacagtcct tgtgtagtgt attgagctgt ctactgatt 240
 cattaaattg caggttcgac tgctcttgggt gtgccctttt ttgagtacct gttccatgat 300
 gatgtaaata ttccttttga ttctatttag cacttg 336

<210> 53370
 <211> 122
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H4

<400> 53370

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 aa 122

<210> 53371
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H5

<400> 53371

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cctattgagg ctatgtgcac atttacaccg aggtcgggtgg ttgatcatca gttaattatt 120
acatgttaca gtagatatga acagattgtg atgaggttga atcgatgact aaa 173

<210> 53372
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H6

<400> 53372

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aaaaaaaaata aaaacagata aaaatgttaa ataataataat ggaattattt ttgattttat 120
tttttttaat ctatatctat attatacttc ttattgtttt atattatgtc aattaatttt 180
ttatttttta tattatctga ttttttatac tttatgattt tttttatata tgaatttttc 240
tttttactaa attttttatt tatttgttat tctatttttt atattttata ctttattttt 300
attttttaat tttatctttc ttttattttg tttttttttt ttattctatt ttattatctt 360
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attgtctttt cgttataatt tttatatatt tttt 454

<210> 53373
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-H7

<400> 53373

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gcggtatgtc tggctgcctc tgacgatagg gggagtccct gatgaagccg tagactatag 180
cttcattgtc cctctctggt ccccggtgt ccatctactg gcacaaacgg aggcgtctcc 240
ctgatgagtg gaaggattct tggaaatata tgatgtcttt tagaataatt caagatgt 298

<210> 53374

<211> 202
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-G10

 <400> 53374

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 ctcaaaggct ctatcccaat ctctgaaag accttgtctc taaaaacctt aacctatcat 180
 gacatacagc tactacactc aa 202

<210> 53375
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A1

 <400> 53375

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 tggtagtaca actatgaagc ctgaagatgc aga 93

<210> 53376
 <211> 244
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-E11

 <400> 53376

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 agccccttcg ggcagcactg ccagatcgcg ctggcagata agggcttggc ctacgagtac 180
 cgagagcagg accttctgga caagggcgag ctgctactac gatccaacct catccacaag 240
 aaga 244

<210> 53377
 <211> 335
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E12

<400> 53377

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cagactgaaa tcattgatac actacaccaa gcttgttcaa agtttggctc ttttaagctg 180
gagtgcacga ggttgggtga ttattatgtc cctcttttct tcacaaaaat tgcttcatta 240
agccctgaag aattctgtgc atcagcaagt ttttgtgggg gggtaacatt cattcgtcta 300
ccaagacatg aagatacttg cacactttgc catga 335

<210> 53378

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E2

<400> 53378

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acctcaagaa agcctaccgc aaggccgcca tcaagaacca ccccgacaag ggcggcgatc 180
ccgagaagtt caaggagcta gctcaggctt atgaggctct cagtgatcct gaaaagcggg 240
agatttatga tcaatatggt gaggatgcc tcaaggaggg aatgggaggt ggtggaggga 300
tgcacg 306

<210> 53379

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E3

<400> 53379

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tcccttctca gaatagtggc agcttgggtcc atacttgtctg cctacaccat acccttcttc 180
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tcactttcct ccatttgtga tcaacattgt cttcctccac cctatcaccg tcctcacaac 300
atggtatgga ttcatcggct cactcctggg gatggccttt ccttgggtatc taaaatggcg 360
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<210> 53380
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E4

<400> 53380

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ccgtggagag ctgtgtccgc agagccttcc tgcaggcgga ccttgccctg gctgatgatc 180
tggacatcag ccggtcctct ggaaccacgg cgctcactgc attagtgttt ggaaggcaac 240
tggtggtcgc gaacacgggg gactgccgcg cggtgttgtg ccggaaagga gtggcgatgg 300
agatgtcccg cgaccaccgt gcgaaccacg 330

<210> 53381
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E6

<400> 53381

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ttggagacgg ttttctttga tgtcctgttc attatccaac actacgtgtt gtaccctgtc 120
aagaaggacg agaatggtaa ggcaatcatt tctgaaaggg tagccccctt tatcaggcct 180
tcggacaagc ctgaagaaga taacgtatga tctagctgta gttatattgc gcgcattgca 240
ttcacgcgct gtttgcacac aggccacaca cgcattgcgaa ttatttggtc aaaaggaatt 300
gcttgccgct cttgattata ttactgctta taacttttaa aaaaatattt ttatttattt 360

tttatttttta tgattttttt ttattgtttt tagttttttc atttttttat ttttttttc 419

<210> 53382
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E8

<400> 53382

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ccagtagaaa agtcctgtgc atcggaggca tatgcggtga actggaacgt accaccttac 120
caacaatcgc atgacttctt cgagcatgct agagccgtat cgagtgatat ggaatcaacc 180
agtgcattgt gaaaagtctt acgtattctt agcaatttct gtgaaatgga acattaccat 240
cattaccaat caagcaatct taagacttct ttgagccatt tgcataattg tgtgaaatgg 300
ttcaatatta c 311

<210> 53383
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-E9

<400> 53383

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tgctgtcac aactgatggt gttcttgtgg gtgctgtatt accttattac tgtggaggga 120
ggtggagcta cagagcaaatt cattgatctt ttgccagtgt caaaacaagt aaaggaccgc 180
tgtgttgagg tcatggatca tgccatcagt agtgtattgt tggccactgc caagattgcc 240
atattccagg gggggctgac atggctattg ttcaagttct tcaaagtgca ttttgtgtac 300
acatcaactg tgcttggatt cataagtgca cttgtgcaa tacttccatt ttggctgtcc 360
tcgatatttg ccacaaggca gcttc 385

<210> 53384
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F1

<400> 53384

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tggatgatga tggatgatgg gagactatcg gatatcatgt ctagcacaac ggcttgtcaa 120
aaaaaacaac gacgatgaag attttgtgga aggccatggg cgaatgtcat gtcttgctgt 180
tacactctat a 191

<210> 53385

<211> 310

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-039-Q1-K1-F10

<400> 53385

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tgagtttgag tgtgggaact actcctgggc tgctgagtac ctgtaccagt atcgtgcttt 120
gtgcacagat actgagcgaa gtgtgagtgc cctctgggga aagctagcag cagaaatcct 180
aatgcagaac tgggatgtgg ctttggagga attcaaccgc ttgaaggaaa taattgattc 240
aaagaacttc tcatcacctc tgaatcagct ccagaacagg atatggctga tgcattgggc 300
tctgntcatc 310

<210> 53386

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F12

<400> 53386

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agccaagaca aggtggtaat ggagagctgt tactatctca aggacgcagt gctgtactgc 120
ggcatcccat acaacaaggc gtaccggatg actgcgttcg agtaccactg cacggactcg 180
cgcttcaacc gcgtattcaa cgaacgcattg aagaaccact cattgatcat caccaagaag 240
atgctggact tctacacagg cttacaaggc gtgtcaacgc tagtagacat aggctgtggc 300

ttggggca

307

<210> 53387
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F3

<400> 53387

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aagtagtaat ggcctccgcc aacagctgga ccctcgagat cgcgtcgcgc gtggccccgc 120
agcgcctgtt ccgcgccgcc gtgatggact ggcacaccct ggcgcccagg gtcgcctccc 180
acgtcgtcgc cagcgcgcag cccgtggagg ggcacggctg cgttggcagc gtcaggcagt 240
tcaacttcac ctcagtcatg ccgttcagct tcatgaagga gcgtctcgag ttcctcgacg 300
cggacaagtg cgagtgcaag aacacgtca tcgagggcgg ctggatcggc gtcgccatcg 360
aaacggcgac gtcgcacatc aaggtggag 389

<210> 53388
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F5

<400> 53388

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ccaaatggta gcggaaagag ttccatcttt aggttgcttc gaggttctgt gccattgct 180
tctggtagtc ttagcaagcc atctgaagga atttttaatg ttcctcaacg tccatatact 240
tgtcttggaa ccttgaggga tcagatcata taccctctct ctcacgagga ggcaaagttg 300
aagattctct catgcgaaac aagtgacaag tctacagctt ccgagcttgt ggatgatcac 360
ctgaagacga ttcta 375

<210> 53389
<211> 359

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-F6

 <400> 53389

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 tgtctggttt ggcctctgca ttatgtcagt gggcatctca agttaaaaag catacctctt 120
 acatgatgac tatagaaatg tcatttattg gaagtgcgtg cttgttagca agtacctatc 180
 ggtcaccaga tggagaagcc ataaggaaat atgggggtttt ccatgaatgg actttctgga 240
 ccatgggtacc ggtattaatg aatgccgtgg gtggaattct tgatgggtctt gtcacaactt 300
 acgcaggtgg tattagaaag ggttttgta tatcatcagc tcttcttggt acttcactg 359

<210> 53390
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-E10

 <400> 53390

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 ggaaaaacac tgggctgtct tctgccaggg tttattcttc tgaagcgctt gcatcataat 120
 tcaaggaag gtccaacagt attagttttg tccccaacca gggaattggc aacacaaatt 180
 caagatgaag caatcaagtt tggcagatct tcaagaatat cttctacttg cttatatgga 240
 agtgctcaa aaagtcctta acttaaggaa tttgaacctt gttcccaatg ttgtggtgca 300
 acttctggga gattgaacga cattttggaa attaattaaa tgaaccttgg ccaagtatta 360
 tatcttggcc ttgattaaac ttaccctatt cttgatattg gaattgagcc accaattaga 420
 aaaat 425

<210> 53391
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-F8

 <400> 53391

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 tctcagagac gagcggattg gctcatcagg acgaccatga cagtgaccag gctaacgaga 180
 ggcctttggt tctctgcaac aaggagccaa tgtggcacga gcagctgcag tgttggtgcc 240
 tcaacttcca tggtcgggtg acctgggctt tctgggataa actgtcagtc gattgctgca 300
 ccactactag attcttgacc gttacagcaa gc 332

<210> 53392
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-G1

<400> 53392
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 ttcccggggg tcgaggctgt cagcagcttc gaccagatgg gcattaagga cgacctctc 180
 cgcggcattc acggctacgg attcgagaag ccctccgtca tccagcagcg cgctctgctc 240
 cc 242

<210> 53393
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B7

<400> 53393
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 gcgatacaga gaaagttcta aaagcactgc aagcagtttc aaatcatctt cggaagtgtt 120
 tggttgatca tagtgtactt ccattatttg aaaagactaa tactacagtg agccaagatc 180
 gcaatggtga tggttggagc gatatgtcac gtccttcaat tggttctgca caagtgaatc 240
 aactaccttc agtgtttagat gactatattc ttcaagtga gagggatcct ctgtaccttg 300
 aacgagaatc tttggtagat cataacattc atcgctcagg cgtatcactt tatgggcgtg 360

atccagcctt gtcaacacta cgaccctctg cagtacatgg tgctgggtca ctacttacac 420

<210> 53394
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B8

<400> 53394

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gcactgcttg tttgttggcc cttctctccc agttttacag acctgggtta gtcttcttga 120
tattgcttgg attggatatt acgagccact ggtttcaaat gtacagttct ttcttgtcag 180
gtaag 185

<210> 53395
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C10

<400> 53395

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gggccgcac accagggctg cgccatgaca cctgcctcct tcgtctccga ccccgcgccc 120
gttccctagc cccctaagcc tctctacctc cggggccctg tcatcgcatg cgccgtcacg 180
ctggcctcgt ttcttctcct cgccgccgac tacgccacca ggcgagcacg gtcctctccg 240
gccgctctac tctcccaccc agctgtttcc accaagttct tctccttcga cctgatgcgc 300
tagtaccctc actaccctgc cggcttcacc caaggatatc tgtacgcggg aaatgacacc 360
cttttcg 367

<210> 53396
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C11

<400> 53396

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cgacgtcgcc accatgcgct aacagctatc aggacggtat gccccactcc cagctcgctg 120
tgctgatcga ctgacgcacc ctccacagcc atctcgccaa gtcacatctt cagctgctga 180
tcctgatgct ggcggtccca tgtttgagg cattcgcccc accattgac accgtctggc 240
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cattcagcat gatactgtag cctaacaagc tgctgctgct gacctgtct taccactgat 360
gaatgctgat gcttgacga ttcaccta gggttaccaa gattgcctca acaactatgg 420
cagcgagatc agcaggcgac agttatacct 450

<210> 53397
<211> 409
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-039-Q1-K1-C3
<400> 53397

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tcatgcacgc acaacaagtg ggcacaccaa agaggacagc aatgctagga acatgacgat 120
gaccaagacg agggcatcgg gcaacatact tgtagccgt aatgacgacg ggccatgcta 180
tctagattcc ggtcttaatg agtacgtctg cagaaagact aataagtgct ataagagctt 240
gggctctgct gtggcgagtt gtcaaccatc atcatgaatt catgatactg cggagacatc 300
atgatactgc ggagacagac ggcgagagat gaagctagct agatgctgtt tcaccaaatt 360
attatgtaac acccaaattc cccattttta gaaataaata agatttttcg 409

<210> 53398
<211> 198
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-039-Q1-K1-C4
<400> 53398

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ggggcatcat tccgaagggt gatgggtgga acagggtggat tcttgtttgc catactctgc 120

aaggctgcgt ttgcagcctt aaagcaaagt tcaactgtca ttgcaattaa atgggctggt 180
ccttaaaagg cctccatt 198

<210> 53399
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C5

<400> 53399

aaaaaaataa aaaaataaaa aaaaaaattt aaaaaataaa aaaaaattaa aatcgggtggg 60
aattaaaaat tagatatggg gggtcacttt gtcggttcca tctattcctt tcccat 116

<210> 53400
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C6

<400> 53400

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gtgttctctt tccactctct cagaggagca aaggcatctt cagcatgggc ttctcgggga 120
gaaaggggca taatttctga catacgtctt cagggcgcaa tcaactggaag gtc 173

<210> 53401
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-C9

<400> 53401

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ggcacgtacc tcttgtgcgc cccgccggcg atgatcgcg tcgccaaagca cagcaggggc 120
ggcaggtacg acctcagctc gctcagatgc atcggctctg gcgccgcgcc gctcggcaag 180
gacgtcatgg tggctatggc tgacaggttc cccggtgtcg acattatcca gggttatggt 240
atgactgaaa cctgcgggat aatatccctg gactacgtac agaaggggtg tgcccgtcag 300

tttgggttcga ctggagcact tgtcacagga gttgaagcaa agatcggttaa tgcaaagaca 360
atgaagcatc ttccctccgag ccaactagga gaaatctgtg ttcgaggacc gaacataatg 420
gaaggctatt tcaacaatgt gcaagcgact g 451

<210> 53402
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D1

<400> 53402

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caggctgtgg cagggcgga gctgcgtgcg atcccaagcc gctgggtgtg tgcgatccgg 180
cgttcatgga ctgagcgata ccctctgcag catgctgttc caccctgcgt gcgcatgagg 240
catgcttgtg cgtgtacgcc aaagacccca agtttgcaaa atacatcacc aacttcaaca 300
ccgtctaaac ctttaccttt tgcggcattg tcattctcaa atgctaattc agcgctctgc 360
gtcgtcgctt tgctagctct tgctcttgtg tgtaacatat tcagcttatg aataaattat 420
gtgga 425

<210> 53403
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D11

<400> 53403

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atgtgaaaac ccaggggttc aggcctatag gctccaacaa gcaatctcat caagcaacat 120
acctttatca cccttggtgt ttcaacaatc gccagtccta tcttcgggtgc agtcattggg 180
acaaaccatc agggcacagc agctgcagca actcttgcta cctgtgatca accaagtagc 240
tctggcaaac ctttctccct actctcagca acaacaattt cttacattca accaactgtc 300
tacactgaac cctgctgatt atttgcacat acaactatta ccatttaacc agctagctac 360

tgctactct cagcaacaac aacttcttcc atttaaccaa ttggccatac tgaaccccga 420
 tgattatttg cagcatcaaa tactactacc attt 454

<210> 53404
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D12

<400> 53404

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 gagggtaaac accctaacgg tacacggcca tacgacaaca acaagccttc tctcactgca 120
 acatacctta atcacccttg ccatctcaac aatcgctatc cctatctttc ccgcacccat 180
 tcttacatac catcacgtca caacaactgc aacatctcga gctacctgcy atctaccaag 240
 tctctctggc aaatctctct acatactctg agcaacaaca aatttctaac attcacccaa 300
 cttgctacac 310

<210> 53405
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D3

<400> 53405

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 ccgccgcggc gacctcctcc gccggcggga tggacagcct cagggggagtc aagttgccgg 120
 gcgtgccgaa gggcgaggag gcgctcgtga aggtggcgct gctcggcggc gcggggctct 180
 acgccgtcct caacagcttc tacaacgtct agggcgga ca ccgcgccatc gtcttcaacc 240
 gcctcgaggg gatcaaggac aaggtgtacc ccgaaggaac tcacctgatg atccccgtgga 300
 tcgaaaggcc gatcatttac gacgtccgtg cccgacccaa cctcgtctag agcactttcg 360
 gtagccgagt ccttcatatg gtgagaattg gtcttcgtgt ccttac 406

<210> 53406
 <211> 263

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D4

<400> 53406

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 tattgggtgg gatggaagaa acatgcgcaa ggagcaacgg acgttgctga tgagacaacg 120
 ccagcacgtg gtcacgtgtc gcatgtcgcg accgggatgc tcttcacgag gaagagcttg 180
 cttccagggg cagccctacc ggaaggtacc aagtctcgcg gccacggctt cctcgatccc 240
 gaaaggtttg aactacgagc gga 263

<210> 53407
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B6

<400> 53407

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 tgccagatta ctttgctaag gttgaggaaa gtatggaaat ggaaaccaag aggctggctt 180
 actatctgga aatttcaagt ggggatagct acccgctctg tttgcaggct gttaatgctc 240
 ctttgatgga aacatatgtc agctatgtga cagagaaaca aatcgggtggc cagctgatgc 300
 ttgaaactta caagattgtt gaagaggaac tgctctgcag atgcagtaac ttgacaactg 360
 gttaaccggg caacgccgca acaatttctt ggacttaatg gaat 404

<210> 53408
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D6

<400> 53408

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 catagagatg tcggctgcag aggcgaaggc ggcggctgtc ccggagtctg tgctgcggaa 120

gcgcaagcgg taggagcaat gggcagcggg caagaatgag aaggcgctcg cggacaggaa 180
 gaatgcgctc gagagccgca tgatcatctt cgcccgtgcc aagcagtacg ccgaggggta 240
 ccacgccccaa gagaaggag 259

<210> 53409
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D8

<400> 53409

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 ctcttggggc tgggcaccca gatgtactca aacgctcttc gcaagcttcc ctacatgcgc 180
 catccatggg agcatttggt ggggatgggt ctcggtgcag tgttcgtgaa ccagctggta 240
 aagtttgatg agaagctcaa ggaggacctt atcaggatac ttgagctcgc caggctagcc 300
 atacgagcat gtgctacatt gacgatgatg aatagatgcc catatctatt tgccagcgac 360
 ctggatttat tttgcaacat gttggt 386

<210> 53410
 <211> 112
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-D9

<400> 53410

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 gtggaagtaa gcttgggggt gtaagctgcg gtcctagccg gtgacgatac tc 112

<210> 53411
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H7

<400> 53411

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gaacaagagg atctccaagg gaaagaaggg tggtaagaaa aagaccgtcg atcccttctc 120
taagaaggac tggatatgaca tcaaggcccc atcgggtcttc agtgtgcgca acattgggaa 180
gactctcgtg tccaggacac agggtaggac gattgcctct gatgggtctga agcacagagt 240
ctttgaggtt tgtctagctg atcttcaggg tgacgaggat caggcttaca ggaaaatcag 300
gctccgtgct gaagatgtgc aaggcaggaa tgtgctcaca aacttctggg gcatgaat 358

<210> 53412
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H8

<400> 53412

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tcaatccgat ttttgaagaa ggatccaaat atgggcgcaa aaaacttaca agaggagcta 120
gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagatggcg 180
gtggaacaaa tattgggaac atgggaagaa agttttgcag atttgtatag ggtcaaggct 240
gagattgacg gcaaaaatgc ctggaagggt tatcgattta gaggtgcagg 290

<210> 53413
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A1

<400> 53413

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agaaaaatat agagttgcag tcatgttctg agaatgcaca tgcagtgttg acagccgaga 120
aactagagtg gggaaactca gatcatttaa gcggtattat tgaaaaacat cctggtggat 180
ttgatcttgt tcttgagagt gatatttgct ttcagcaatc tagcatttcc tgctctttg 240
atactgtaga gaggattgtt cgtattcaag ctggtaaagt cagattcata ttggcttatg 300
tatcccgaaac taaagtcatg gatgcactaa tactcaagga agctgaaaag catggaatgc 360

gtgttgaaaa aatgaaccgg aacaagaaca acca

394

<210> 53414
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A10

<400> 53414

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gcccttgctg ctgccgact actccaccgc cgactgccag atcgacgggt accacatccc 120
cgccaacacg cgcgtcctcg tgaacggctg ggccatcggc agagaccggg cgggtctggga 180
gaagcccag gagttcatgc ccgaaaaggt catgcgggac ggcttggaca aggtccacca 240
cttccagcgg caagaattca aggaccttgc cgtccgggtct tggccccga tcttgcccgg 300
ggccaaattt gcgcttggga c 321

<210> 53415
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A12

<400> 53415

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tgggcttgat tatctagctc ttctgcaata tccacagcat tatctatgtt tatccaatcc 120
gctgctacat actcaciaac atgtacttct taaacctacc cagataaac actacctgga 180
aaaactccta tcaaattata catgtactga tgattctgta ccgattacac aatatactca 240
cactcactat tcta 254

<210> 53416
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A3

<400> 53416

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gcactacaaa atgggtcactg ggaaagtagc agtcgtcctc ctagcctgct ggacgctagt 120
tctctaccaa ccagtgttg gccgtttacc gtgtaacaat gatcagaaga gagagatcct 180
gcgcgagtgt gatccactga actcaacacc tgactatact ccatcccggc acggtgcgtg 240
ctgctggtggc gtgagaaagg tgccaggaac caacatgctt tgcattgcct ccatactctc 300
acttgctgac aaggccaaat acagtgtgag gaagattcta ggatttagag atgcatgcgc 360
cccttcacat ccacaccatc aggtagttaa tacttctgtc atcacttgac agtccttaga 420
ctacagt 427

<210> 53417
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A4

<400> 53417

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agtgttcta agtttttttg ggaaattttt ccaaaaaaaaa aaagaagttt ctggggaagt 120
tcgacatggt acgtcaggcg ttaccggctc attgtgaacc aatacatgaa ctgccatgat 180
aaggttataa gcagaaataa cagtagcact ggctccaatt cctgaagatg agtctggtgc 240
gccctgctgt atgaaatgga tccactcgt ttattcgtca ccgcgccgca ctggtgtaac 300
gtgttgctc aaagtttgct ttttacctgg tcctttttta aaaataagtc tggttttggt 360
tggctacc 368

<210> 53418
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A7

<400> 53418

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tggccgtcgt cgaggccgcc gccgccgacc acgccgcgcc gccgtccag gagggagcac 120

cgggcgcggg cgcgggcgct ggcgcccacg ccggggagcg cgagatgcgg gatctggagg 180
 acctgctctc caagctcaac cccatggccg aggaagtcgt ccctccgtcc ctgccttcc 240
 ttgccgccct cagccccgtg ctctcttcc tcgttgcta cggtgctac ccggtcg 297

<210> 53419
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A8

<400> 53419

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 tccgtgcctc ttggaaaaag aggaaccaa atcattgttc agtgctgatg caatttctcg 120
 agcaaagcaa attcttgcaa ctattcctgg aagggcaaca ggtgcatata gtcacagtta 180
 gggatatcaa ggactgctg atgcaatttg ctgctggaat tcatgtcatg tgattggatt 240
 ccctgcaaat 250

<210> 53420
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B1

<400> 53420

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 gctgagaggt acgaggagat ggttgagttc atggagaagg tagccaagac tgttgactcg 120
 gaggagctca ctgtggagga gcgaaacctc ttgtctgttg catacaagaa cgtcattgga 180
 gcccgcgcg cctcatggcg catcatctcc tccatcgagc agaatgagga gggccgaggc 240
 aatgaggacc gagtaacact catcaaggat tatcgtggca agattgaaac tgagcttacc 300
 aagatctgtg atggcatcct taagctgctt gagaccatc ttgtgccgtc tttcacttgt 360
 ctctgagtcc aaagtcttct atctcaagat gaagggtgat tactaca 407

<210> 53421
 <211> 385

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B10

 <400> 53421

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 gggatcatca ctagagttgt ggacagcatg attgacaatc tacgccctac ccgtgcagag 120
 gcaactgatg ttgcaaatgc tgtcctagat ggcaactgatg gcatttttgc tgggtgcggag 180
 acacttcgag ggctttatcc ttgtgatgca agtagtactg cgggggagaat atgtgcagaa 240
 gcttagactg tgtataatca agcgcttcaa ttgaagaaag ttatgtggca tgtaaggtag 300
 ccaatgcccc accaggaatc tggggcatca acaacggttg gttctgtaat caaagtgaag 360
 actgctgcca ttggtgggtt cacat 385

<210> 53422
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B11

 <400> 53422

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 tgttcataag taactgcgca ttgccttgcc cccttgctct gctccctact cccctccgga 120
 tctaccgggc tgctccattt aattactgac tcgtaccctt ccccgcatc gccttcttgc 180
 ctcttccatc ccaccgcat cagccaccgg ttcccaatgc ccaggtaggc agcccagcac 240
 tgtgtgggtc tctgatccgc ggcggcgcgc ccgtcggtac ctacgcgaat ggctcctcca 300
 gcaggggagc ggaacgcgag gaggccattg 330

<210> 53423
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B12

 <400> 53423

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 ttctactgtt tcatctgttg attacgagaa cccgatcaatt ccgtgctttt cgtaggctt 180
 tctaccgata gaaccttcca aatgtgacca atttgcttgc cactgtcttg gtattactaa 240
 taggtatcta ttgcaagggc ttccgtgctg agcttccagc gtgatcaaat aatgctcgta 300
 gccagcaagg ctcatctcca attaagctgt tctacacttc aaacatgccc atcatccttc 360
 actctgcgct gattaccaac ctctatttta tatcccagct tctctacagg aagta 415

<210> 53424
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B2

<400> 53424

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 gacaatgacc ctggactatt cacggagagt ctgcggaaat acgaggaaga gaaagcgaga 180
 gagaaggagg ttaagtcgaa gcaagaggcc acatggagac gccttgaaga gatggcatca 240
 gcgaaagcga caagcggcgc ggcagttctc gtctctcgac ctttatcccg gcagtcttcg 300
 gctgtgtagc gaattttcat gtgggggtcg tgagaacatt gtacaggatt gagttgtata 360
 tacgaggtat attaaggtgg gcaaatttga caaatgatat cgtctgaaaa accagtcaga 420
 tgggttacag ggc 433

<210> 53425
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H6

<400> 53425

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 atagactgaa gtatggctgg agatcttcca agatctgtcc agtacaaagg aagcgattac 120
 cggagcttac accacagctg cctaagccat tccagagtac agatggtttt actatgatcc 180

tatataagat ggc

193

<210> 53426

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B3

<400> 53426

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aaagatgatc acggcgggggt gcctcgccgg cgtcagtgac tccgtggcgc agaagctctc 120

tgggttccag aagattgaga aacgcagact cctgctcaag atgctctttg gttttgcgta 180

tgggtggccca tttggacatt tcttgacaaa aattttggat tacatcttcc aagggaagaa 240

ggataccaaa accatagcaa agaaggtggt gctggagcaa gtgacatctt ctccctggaa 300

taacatattg ttcttgttct attatggata tggtgttgag aggaggcctt tgaaagaggt 360

gacgaccagg gtgaagaaac aatacccttc tgggcaactt agcgcttgg 409

<210> 53427

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-B4

<400> 53427

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atgcagatcg ttgtgaaaac cttgacgggc aagacttatt cacctctcga ggtgggagtc 120

gttttgacac cattgacaac gttaaggcca agatccaggc caaggag 167

<210> 53428

<211> 206

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G1

<400> 53428

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tccttcttgg gcatgatctg cgcgctcgtc tactgcaccg tcggcatcta cggcggggcac 120
atcaaccggg cagtgcacctt caggctgttc ctggcgagga agttgtgcct caccaacgcg 180
gtgctgtaca tgatcatgca gtgcct 206

<210> 53429
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G11

<400> 53429

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ttgtgcagac cgcgaaaact atgtcagctg ggacgggata catgccactg aagctgcaaa 120
tagtaggata gcgtatgctg tgatcagcgg ctccatttcg taccacactt tcgatctttc 180
aaagctatgt agcccttagg catcatcagt cgtgaaaggg agtacagcat caccatacac 240
cgcatttctc tgaacaagc agccacattt ctttc 275

<210> 53430
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G12

<400> 53430

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gaatgttaga ttctctgca actttcttac ggaagctgga attatcatca agagaagcca 120
gacccgtata agtgcaaaag ctcagcgtaa gattgcaaga gagatcaaaa ccgcacgtgc 180
gtttgggtta atgcctttta caacaatggg tagaagacca ttcatttttg gcagaagtgc 240
ggaggagcat tattgggatg atggatattt cggctatgtg aagcagaagg atggtgagcc 300
tgttgagaat gaggatgctg agccaaatgt ggaggctgtg taaacattct gaagcatcct 360
tttgcaagcg cttcgttc 378

<210> 53431
<211> 358

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-038-Q1-K1-G2
 <400> 53431
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 ccccgagcaa aagagaaaac cctttttttt gtgcgctgtg ctgtttcgcc atatctgttc 120
 gtcccaccga ggcaccgact caatcccat tcttggcctc tggcttcaca aaacaagacc 180
 ggttcccgtt ccctagatct ctgcgtagag gcggcgaggc acccgaatcc ggcaaaaaag 240
 ggttcgcggt ttgccttggg tgggaggagc gcaggagccc ggcgtcaaaa cccaatcttg 300
 gcgcccgggc tgccgtgcgc catcgtcttc tccccctgt ggtgtttagg gagaggag 358

<210> 53432
 <211> 197
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-038-Q1-K1-G3
 <400> 53432
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 cattatccac aagaccaagg cctacttcaa gcgttttcaa gtgaagttca agataaagcg 120
 cccctgccat acaaacttca aggcccgat taagcttatt taccagacc aaaaccagtt 180
 ccatacaacc atattca 197

<210> 53433
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-G4
 <400> 53433
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 ggcgctctca gcccgccgc gaccgccaac tctgcccgc atcatccatt cactcttcgt 120
 ctccctatcc gaccgctccg caatccgcct cctgcccgc ccgctcctcg tcttctcca 180

actccgccgc ctgctgccgc ccgacgccgc caccgaactc ctctgcacc caatcgctc 240
gctcctccac ctgcaccgct ccgacatgcy cataggcctc cagcttcacg ggctctccct 300
gtccgccggc ctctctgtct actcgacact actgccccac ctntctctct tctactccca 360
ccacccgtcg ct 372

<210> 53434
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G5

<400> 53434

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caagacccac aagaccaatg cgtacttcaa gcgtttccag gtgaagttca agagaaggcg 120
cgctggcaag acagactaca aggccaggat aagggttggt aaccaagaca aaaacaagta 180
caatacacc aaatacaaat ttgttggtgcg atttaaccac aaggacatca cagcacaagt 240
catctctgct agtatagcag gtgatatggt tcttgcttct gcttactcgc atgagttgcc 300
acgatatggt cttgaagttg gtctgaccaa ctatgcagct gcctactgca ct 352

<210> 53435
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G7

<400> 53435

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gaacaccgat ttgatggacc aagaacaatc gaagaaatcg ttctgttcc attggatgag 180
atacagatcc atgatgatgt cccagggcaa cggggagcag ccgatgagat agatgagggt 240
ccattttctg acgctccgat cattggtgct ccattcagac tgatctcatt tgttgctagg 300
tatgtcagcg gcgctgattt ggtcaaccaa aaataactgt ctgcatacca ggaat 355

<210> 53436

<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G8

<400> 53436

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ctccctatcc gaccggtccg caatccgcct cctgcccgc ccgctcctcg tcttctccca 180
actccgccgc ctctgcccgc ccgacgccgc caccacaactc ctctccacc caatcgctc 240
gctcctccac ctccaccgt ccgacatccg cataggcctc cagcttcacg ggctctccct 300
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ccaccgctcg etc 373

<210> 53437
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G9

<400> 53437

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ccgggcgag gagctgctgg ccgggacct cgagtgggtg ttccatggc ctcccgcgcg 120
ccagcacatg atgcgcctgc tcaccggcg cctggaccac cggggtctcg tcttctcccc 180
gcgctccgtc gacgccttcg gctccaccgt cgtcgccgag ggcccgacg acgcgcgcca 240
gctctactgg gtgcacgcct ggaccgtggg gcccacatgg gtgatcacgc agctcagga 300
gtacttcaac accgacctca cgctcctctc cggccagcct gacgtcgggt ccgcatgcgc 360
tgcttcggct aagcagaaag acgctggcct tctctcgtcg cccttcgtgg cgggaccggc 420
agcagggccc aagtgcctgt gg 442

<210> 53438
<211> 324
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-H1

<400> 53438

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tcaatcccat ttttgaagaa ggatccaaat atgggacgcaa aaaagttaca agaggagcta 120
gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagaaagcg 180
gtggaacaaa tatttgaac atgggaagaa agttttgcag atttgtatag gttcaaggca 240
gagattgacg caaaaatgcc tggaagtgtt gtcgatttag aggtgcanga ggaagaggat 300
ggtgtgtatt ttgcagatt cttt 324

<210> 53439
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H10

<400> 53439

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tggcggcctc gcctgggcca ccgacgacca ctccctcaac aacgccttca gcacctacgg 180
cgaggtcctc gagtcaaga tcctcctgga tcgggagacg cagagggtccc gcggcttcgg 240
cttcgtcacc ttctccacgg aggacgcgat gcgcagcgcc atcgagggca tgaacggcaa 300
ggagctcgac ggccgcaaca tcaccgttaa cgaggcccat tcccgccgcg gccgtggagg 360
cggcgggtgg 369

<210> 53440
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H11

<400> 53440

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cctgctccga caccggaccg acctcatgcy gcaccgatac cgccaggtga cagtcgtatc 120

tggatgaaca gccatgacgg cggaacgagt acgctgcccc gagatgcagc gacccccctct 180
 gcgtcaagat gaaatgaatc aacgatacct cagacttggg tccccctgggtg gctgtgtctgg 240
 gagatcttag ttttaggcac ataacgggtg taaatcactg gctaaataat gacaataata 300
 tttccagagt taaaa 315

<210> 53441
 <211> 175
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H12

<400> 53441

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 ggcaccgata ccgtcagggtg acagtcgtat ctggatgaac agccatgact gcggaacgag 120
 tactctgtct cgaaatgcag cgacccccctc tgcgtcaaga tgaaatgaat caact 175

<210> 53442
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H2

<400> 53442

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 tcaatcccat ttttgaagaa ggatccaaat atgggcgcaa aaaagttaca agaggagcta 120
 gaggataaat ataatgtgaa gctaggatac tcaacagtgt gggctggtag acagaaggcg 180
 gtggaacaaa tatttggaaac atgggaagaa agttttgcag atttgtatag gttcaaggca 240
 gagattgacg caaaaatgcc tggaagtgtt gtcgatttag aggtgcagga ggaagaggat 300
 ggtgtgtatt ttgcgagatt cttttgttgt ttcaaacc aaacattgatgg ttttctgaac 360
 ggatgcagac 370

<210> 53443
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H3

<400> 53443

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atcactcaaa cttttcaagg atggcacggt tgtctgcaaa acatcctctc tccattatct 120
aaaaaatact tctattacat caatgccccca ttcgtcttta gcgcgcgcaa cactgagtgc 180
actgtcccg tcatgagaca cgatgccagc attgtctacg aacgtgtgta ggcccaagcc 240
cctgatggtc gcctatctga tcttcaaggt gaccaagatc aagcttacag gaaaatcaag 300
ctccgtgctt aagatgtgca aggcaggaat gtgctcacia acttcttggg catgaat 357

<210> 53444

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F9

<400> 53444

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gaggctgctg acttgcactc tgttgtcttg tatcttcgcc aggagaagta cgacgtagca 120
gcaattgttg gtcacagcaa aggtggagat gtggtcgttc tatatgcctc tatctacaag 180
gatgtcccca tgggtggttaa cctctctggc cggtttcatt tggagaaagg cattgaggag 240
cgcttaggca aagagtttat ggatagaata aacaaggaag gctacatcga tgccaaagac 300
aaatcacgaa atgttttgta caaagtaacc aacgagagct tgatggaacg gcttgaccat 360
gatttgacg caacgagcct ttccatcagc aaagagtga ggttctatac aattcacggt 420
tcagctgacg agatcatac 439

<210> 53445

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H4

<400> 53445

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atagactgaa gtatggcagg agatcttcca agatctctcc agttcaaagg atgggattac 120
 gggagcttag accacagctg cctaagccat tccagagtac acaaaggctt aactgatcc 180
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<210> 53446
 <211> 239
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-H5

<400> 53446

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 gccctcacca gaggagtacg cgattttggg actcaatctt ctgaggctgt tggctcagaa 120
 tagaattgct gagttccata ctgagctgga tcttttacct gtcaaggcac ctgtgctcca 180
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<210> 53447
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E2

<400> 53447

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 cgtccaggta tggcgcggta cgcctaacaa cccgttgtgg acatagggtg agctcatgaa 120
 ccaaacagaa atgctttctt atatatccac cttttgtaac gtgtctccgt gaggaatgag 180
 tccatagtat ctcccatcgc cgattacaat gactgctccg acctttatct cttctgaact 240
 gatctgagct ggactgacgt atgtaacagc catggatgca acgaatcatg gaaaaattga 300
 tgtgaaaacg aaaggttttg tgtgttctgg tgcaacttaa gaaagatgac ggctcccccg 360

<210> 53448
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E4

<400> 53448

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ctccgcccac cgcgcgcggg ggcgtcgcca cggcggaggt gcccgcgag ggcgtcgagg 120
actccacgtt cgtcgaggcc tggaaaaagg tcgcccccaa catcgagccc ccagcgacgc 180
ccctctccct catgcagccg cgcgcgccc cgcagctac catccctacc aagctcaccg 240
tcaacttcgt cctcccctac aagtccgaga tcgccaacaa ggaggttgac atggtaattg 300
taccagctac aactggtcag atgggtgttt tgccaggcca tgttgccaca attgcagagc 360
tcaag 365

<210> 53449

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E6

<400> 53449

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tggcttagct gaggaagcc atcgatgacg gcgcggacgt ggctggctac ttcgcttggt 120
ctatcctcga caacttcgag tggcagtcag gttacacgtc caagtttgga atcgtctacg 180
tcgacttcag cagcccaag ctcgaacgac accccaaggc gtcagcctac tggttcagag 240
acatgctcca gaaacactta tgagcgtcta acaaccaagc ctgaaatagg taccattaaa 300
tttcttcagc gctgcctaag ctagtggcca tattattgta gcaaaagttg taagctagca 360
cagtgcaa 368

<210> 53450

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E7

<400> 53450

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cctccactgt attgaaattg tatcgttctt gtccgtccga tgcagctgtc cctcaagcta 240
ggaaggcgtc ccttgctcga ttcttgagga aaaggaagga aaggtagaat ccatactctt 300
attctcgggtg attccattcc accacacatc tgttttggtt ttgaggcaga tctgcaactg 360
t 361

<210> 53451
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-E8

<400> 53451
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ccgcccgcgc cctcgtttcc cgcgcggcg ctccgcccac cgcgcggcgg gcgctagaca 120
cagcggagat gactccacaa tgcccacttg ctccaagatc cattattaca ctggaaaaag 180
gtcgcccccc ataaatgggc ttccaacacc cagctgtgca agcgcatatc cgcccacaaa 240
caattgctgc gagcgtttta caacaaccaa tcaacttagt tgcttcaaca aagcttggca 300
catctaacaa taaaaccat cgcctcatag caccaacaac aaatcctacc agcactgagc 360
cacctagcca tggatgaacc tgacgcctac ttgcaa 396

<210> 53452
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-E9

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tccatcgagg aggtggaggt agcgcggcg caggccatgg aggtgcgtat caagatcctc 180

tacaccgcgc tctgccacac cgacgtctac ttctgggagg ccaaggggca aaccccggtg 240
 ttcccagagga tcttaggaca cgaagcggga ggcatcgtgg agagcgtcgg agagggcggtg 300
 accgagctcg cgccaggcga ccacgtcctc ccggtgttca ccggcgagtg caaggagtgc 360
 gccactgca agtcggaaga gagcaacatg tgcgacctnc ttatgatcaa cgtcgaccgc 420
 ggcgtgatga tcggcgac 438

<210> 53453
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F1

<400> 53453

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 cgggacatct ggcagcagaa aaagaagccc aaaaggggcg gcgcctgcgg gagggcgctcg 180
 ttcgcgggcg aagacgatga ggacttcaag gcctgcttcg aggactatga agccgactcc 240
 ggtgattcgg attcggagct cggagaaggg gctgacgacg acgtcatcga gatcaagccc 300
 ttcgccgcca agagtacttt ctccagagat ggcttaagca ccatgactac 350

<210> 53454
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F10

<400> 53454

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 accatgggaa gagggtttga agaagacgat ggagtggtag accaccaatc ctgattactg 180
 gggagatgtc actggtgcgc tgcttcctca tccaaggatg ttgatgactc ctggagttag 240
 aaggcataac tgggctgaag aatcaagtc tctggcttct tcgccagctg aagctagtag 300
 aatagctcca gcaaccagta ccaaaagcat ctctgatgcc cctcagaagc cttcctacag 360

gtttttaatc tatggttagga ctggatggat tgggtggcctc cttggaaaga tttgtgaa 418

<210> 53455
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-F11

<400> 53455

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tcccagagcga gttcttggtt gacctcttcc tcttcggacc acctccaagg ctcttggtgt 120
agcttgccac tctcaccaat caagttttca tgtctgatct cgacattcag atcccaactg 180
ccttcgatcc cttcgctgag gccaatgctg gggactctgg tgcggcagca ggggtcaaagg 240
actacgtaca cgtgcgcata cagcagcgta atggtcgcaa gagcctgacc accgtccagg 300
gattgaagaa agagttcagc tacagcaaga tcctcaaaga tctcaagaaa gagttctgct 360
gcaatggtac agtgggtccan gaccagaac ttgnacaggt cattcagctc cagngtgatc 420

<210> 53456
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F12

<400> 53456

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gatgcagacg ttcacgggga cgctgacagg gatgaccgtc accagcaagg tcgccagcaa 120
caacgccatg gacaatatcc aggacaaggt ccaggtcaag gaagggatcc agccggtgca 180
gtatcccctg atgtatgtcg aggagcacct gaaggatggc cactctatca tggactatga 240
cattacactg gagtttacgc ttaagctcgt gcttaggatc attg 284

<210> 53457
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F3

<400> 53457

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gcctcgagtt cgtgcggcag ctgctgcgca gaagcgatgg aggcgcgctc gtcgctacgt 180

gccgcacgcc gggttccgcg gccgagctcc agaagctcag ggaggagcac gcgcccgggc 240

gcctcacgt gctgcgctc gacgtcacg acgagagcac catagaggca gctgcggcct 300

caatcacgga gacccacggt tctcttgacc ttctgatcaa ctccgcggc a 351

<210> 53458

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F4

<400> 53458

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atcccgggtga tcgacctgcg cctcgccggc tcgtcgcccg acgagtcggc ggggctgcgc 120

gacgcgtgcg agcgccctggg ctgctttcgg gtgaccggcc acggcgcgcc cgcggggctc 180

ctggccgaca tgaaggccgc cgtgcgcgcg ctcttcgacc tccccgacga cgccaagcgc 240

cgcaacgcgc acgtcatccc cggcagcggc tacgtcgcg cctgccccgc caaccgcctc 300

tacgaggcct tcgggctcct cgacgccgcc gcgcccgcg acgtcgacgc cttctgcgcg 360

cgcc 364

<210> 53459

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F6

<400> 53459

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gttctgtgga tacatcatct atgacacgga caatgtcatc aagcgctaca cctacgatga 120

atacatatgg gctgctgttt cactctacct tgacgtcatc aacctgttcc tgtctctgct 180

gcagctgctg agggcagccg atagctgagc tcgtcaagct ttcacttcga tcttggtctc 240
acatacatct gtgtatatca caaactctgt aatgggtcatg gatactccaa ttataacta 300
tactctgtcg gtgttacctt ggttcaaag gtagtctctg ctttaacgga taccatgag 360
agttttaag 369

<210> 53460
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F7

<400> 53460

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gaatggcttt cctgccata ctatctgtag gcttttgcc agtagcagtc gggtttcgct 120
gtttactggc attaacattt ttactctttc ttctgcagct ccataccctt ttggtatagc 180
ttgacatgcc agcagtggca cagtgccgta ggttcctag aggtgaacta gatgtttgtc 240
agcatgggtt gattttgcca gcctatgcag aaaacctcac ttggtctttg taatgtggta 300
atgccatgta tcagtatcct agtctgatgg agttttggtt gagacagttc tcaaaaa 357

<210> 53461
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F8

<400> 53461

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ctactgcaac agtgaaatcg gttgcaccag atggagagga gaaattagca tgtacagtcg 180
gagcacgttc agtcgatgca agttacatgg ctgttgacaa aatagttcac attccaaccg 240
ttctacgagt atacagtttg acttcatgga cagagcgcat tgacgcaatc tc 292

<210> 53462
<211> 417

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E12

 <400> 53462

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 tcagtactat cttttgaagg tggggacatc tgtggtgttt tgggtcccttg tctgcatgtt 120
 ggaatgtgct tttcatcatt ctgctgacat gttgaagacc atcattttgta ctactgaac 180
 tacatgcatt ggggtgctcc aaagatgtgg tatggagtcc caggaaagga tgccgtaaatt 240
 ttggaggcag caatgatgaa acatctacct gacttggttt aggaacaacc tgatttgctt 300
 cacaacctga ttactcaatt ttcaacttca ttgcttaaat ctgaacgagt accagtctac 360
 cgatgtgtgc accatgaggg acagtttgtt ctaacattcc ttggggcata ccatgct 417

<210> 53463
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-C6

 <400> 53463

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 ggagagcccc accctctggc tcccaccggc cgtgcttcta cgatggcctc cggcggcggt 120
 ctccggccca ctgcacacac taccgcgcgc gctctacgcg ttccactacg tccaccgtac 180
 gctggtccac ccggtccgcc tcgcccgaact gcgcgcgcc ccggcccccg tgccgtcctt 240
 catcgacgcc tgcgccttgg gattcaatat cctcaacgcc tacctacatg cccgctcctt 300
 cgccctacac tccagccgcc aggcgtccac cttccgctga ctgctgggc tgccctctt 360

<210> 53464
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-C8

 <400> 53464

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 cgcgtccgcc cccgaagtgg tgggtggtctt cgacttcgac cggaccatca tgcactggga 180
 cagcgacgac tgggtcatca ccaagctcgg cgccgccgac gccttccagc gcctgcgccc 240
 aaccatgcgc tggaaaccgc tcatggacag gatgatggcg gagctccacg ccagggggaa 300
 gacgcccag gacatccgcg actgcctcag gagcgcgccg ctcgacacgc acg 353

<210> 53465
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C9

<400> 53465
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 aaagccctca ggcagagttt tataaagcaa cacgaagcaa ggaccgcatt gcaagatttc 180
 agattagaga actaactgta gagcctggaa cgtgggttag cttaaccatg tatacataac 240
 gttcaaacat cgttctgact tctacaaaaa gttaagagga tctgaaattc taaatcttgc 300
 ctacgccttt ttagttagat tgggaagcaa gatagcttcc atgaccacag aaaaataact 360
 attcttttcc tgggtgaatt tctagaagtt ttgagataaa ataaataaaa ttttttttta 420
 ttattttattt aat 433

<210> 53466
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D1

<400> 53466
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 acgtcttcta ctgcatgaac ccgcgctgcg acagggcgcg ggagatggag gagcgcgctcc 180
 tcggcttcct gcgcaagtga gcgagcgact gatcgcgcg cttgctacgc gattgagatg 240

gaataatttc accgtttcca gatgtggagg cgtttgagca tgaggccatg aggggtcttat 300
 ttgtttgctt aagatcaatt gattgaagtt tcg 333

<210> 53467
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D10

<400> 53467

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 cacttcaaag tttcagtata tgcaaaactg aatatgctgc ttcaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaag aacgaaaaaa taggtgtttt ctatcgtgac cccaatttaa 240

<210> 53468
 <211> 59
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D11

<400> 53468

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<210> 53469
 <211> 442
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-D12

<400> 53469

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 gacaagaagg ggcggaagaa ggccaagaag agcgtggaga cgtacaagat ctacatcttc 180
 aagggtgctga agcaggtgca cccggacatc ggcattctct ccaaggccat gtccatcatg 240

aactccttca tcaacgacat cttcgagaag ctgcgccggc aggcgggcaa gctcgcccgc 300
tacaacanga agcccacat cacctttccg gagatccaga ccttcgtccg nctcgttcta 360
ccggcgagc tcgccaagca cgccgtctcg gagggcacca aggcggtcac caagttcacc 420
tcgtcctaag ctcttttct ag 442

<210> 53470
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D2

<400> 53470

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tgacttctaa tatctaaaac atgggatttt gtagctccta gttcatgact acattcatcc 180
atatgcttct tccaagtac tagtcaatac aaaaacgctc atgtgaggct gtcctctttc 240
cgagtactag ccatatgctt cttttagtct gtactttctt tgtaagggtt atgaactctc 300
ttgaactccc tgcatttgcg gcaatttctg ctgctcctcg tcgttctctt ccttcggct 359

<210> 53471
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D3

<400> 53471

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tctctagtgg atgctgctta ccgaaaggca aagtcattga aggcggctag caaacggggt 180
cctggtgcaa gcaaaggaaa gaaagagaag aatgcaagac aatattctga gaagactcct 240
aacaggcatg aggagatgct tgagctgttc cagaatgata tgagtgaatg gaaacaggga 300
cgctcctcaa agaaaaacaa caatttcgct caaaaaaat caaaagcttt taatagcaaa 360
gc 362

<210> 53472
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-D4

 <400> 53472

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 atacatgaaa tttcatcctg gaggtgttga tatgcttatg aaagccgctg ggaaagactg 120
 cactgctttg ttcagtatcc ttctattatt atttctgcac tgtgatacat tatcttgctg 180
 cttgtgggct catactggaa caccattctt attattatgc aagctgggtg ggcctaaagg 240
 catgatatac aaacagcgat cactatgatg cctttgcagc ttttgctcaa tctcttcgtg 300
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<210> 53473
 <211> 144
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-D5

 <400> 53473

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 ttgtggagcc ttacaacaga gtgc 144

<210> 53474
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-D6

 <400> 53474

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 tgccacctat tttactcat ttgccttcac tgaccacgtc tgactggtaa aacctggaa 180

atcctaactt aaccgaactt aatccatccc ccttttatcc agctttcgtc atttggaaga 240
tgcccg 246

<210> 53475
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D7

<400> 53475

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gttatgtcct ggcttttcgc gccttacatt ttcaaccctt ctgggttcga gtggcaaaag 180
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aagggcgaca acagttggga atcttggtgg gatgaggagc aggcgcatat ccagacattc 300
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<210> 53476
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-D9

<400> 53476

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ccacccgacc cgtacggccg cgcgcccgtc gaccccgatc cgtacgggtc acctccgccc 180
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ccgccggcct acgggcgccg gggcggttac ggcaacgtcg tccacgtcgc gcacgaggtc 300
ggcgacgaga ggccttacta cggcgggcggc ggcgggcggtc ttggtggcgc ctacggaggc 360
ggtggctccg agtacgggca cgagggccga ccgtaccacg gcggcgggcg atcccagtac 420
ggtcacgaga cacg 434

<210> 53477

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E1

 <400> 53477

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 gttcctgagc gacaacggcg gtgccttcac cgtcaacatc tacccggtca taagcctcta 120
 catcgacccg aacttccccg tggactacgc cttcttcgag ggggcctcgt cgccgattgt 180
 ggacgggtcc ttcacctaca gcaacatgtt cgacgcgaac cacgacacgc tgatatgggc 240
 gctgaagaag aacgggttcg ggaacctgcc cgtgatcgtc ggcgagatcg ggtggccgac 300
 ggacggcgac cggaacgcca acgcccagat ggcgacgcgc ttcaaccagg gtttcatga 359

<210> 53478
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-E10

 <400> 53478

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 ccatctgcct gtttggcttg gatttggcgc ggcgatcaag cacatcatgc agaaggacat 180
 caggaacatc catatactga aagagatgta caatgagtgg ccattcttca gggtcaccct 240
 tgatctgctc gagatggttt tcgccaaggg tgatccagga atcgcagctg tgtatgacaa 300
 attgcttggtg gctgatgatt tgcaatcctt cggcgagcaa ctgangaaga actatgagga 360
 gacaaagg 368

<210> 53479
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E11

 <400> 53479

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gttgaggaaa tcttagaaca aataaagccc accccaactc ttgtgtttgg atctcttctg 120
ggcctctcag cacttttcta tgctttactg gaatgggaga tgactttgca atacatagct 180
gttttaagcg ttgggctgac tatctacttg cgattctcta catatgagga ctccgaggat 240
ttggagaaag acctaaagct gttgctgtct ccagtaagag tagggcgaga cgccttgtca 300
tgggcagcta agaagataga gccaaacaag gtgggcctgc caacgtctcc ttccacgacg 360
gcggtgaaag accgggttct tcaaggccgc gcgaaacacg agtcgcagcc atcggatgcc 420
gacgagtcgt cggtcc 436

<210> 53480

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C5

<400> 53480

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gctctggcga acgtagctgc ataccagcaa caacaacagc tgcaacagtt tatgccagt 180
ctcagtcaac tagccatggt gaacctgcc gtctacctac aactactttc atctagcccg 240
ctcgcggtgg gcaatgcacc tacgtaccta caacaacagt tgctgcaaca aattgtacca 300
gctctgactc agctagctgt ggcaaaccct gctgcctact tacaacagtt gcttccattc 360
aacca 365

<210> 53481

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B1

<400> 53481

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cttaaaaaag aggcatcgca actagcaagg gaaaatttag aaaaggagca gcggattttg 120

aaacttagga atcattgcac aataattaga accgcggaac tgtctgctgg tcaagaccat 180
ctaactgatt tggagaggca aaaggatgat attatgaggc cctattcccc tgccgctctg 240
ctcaacatgc tacatacatc aatggcaaaa gcggatgagg agcccgagga gctgcaccag 300
atgttcctgg agaatgacat agtccttaca acctttgtgc agaagtacaa gaagcttctt 360
acggattacc acaagcaggc attgcttcat gtcgc 395

<210> 53482
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-B10

<400> 53482
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ccccgccggc gccgctcttc gagcccgggg agctcaagtc ctggctccttc taccgcgccg 120
gcatcgccga gttcgtcgcc accttcctct tctctacat ctccatcctc accgtcatgg 180
gcgtctccaa gtccacctcc aagtgcgcca ccgtcggcat ccagggcatc gcttggctct 240
tcggcggcat gatcttcgcc ctctgtctact gcaccgncgg catctccggc gggcacatca 300
acccggcggc gaccttcggg ctgttcctgg cgaggaagtt gtccctcacc agggcgggtgt 360
tttacatcat catgcagtgc ctgggcgcca tctgcggcgc gggcgtcgtc aaggggttcc 420
agcangggct gtacat 436

<210> 53483
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B11

<400> 53483
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aattcaccag gctagagcta gctagctggc tctaccgccg ttccccgata gagcgtccgt 120
catggagatt gatgagatgg agagcgggtgt cgtcaatgga agcggcggcg gcgggtcgtt 180

ccggcggggcg aggtgctggg agctgctgtg ctcggcggcg ggcatgctct ggggcaaggt 240
 cgtcgggttc gcccgaagc tgggcaggat cgcgaggac gacccccggc ggggtggcgca 300
 ctccatcaag gtcggcctgg cgctcacgct cgtgtccgtg ctctactacg tcaggccgct 360
 cttcaacaac tgggggggtgt ccaccatgtg ggccgtgctc accgtcgtcg tcgtcatgga 420
 gtacaccgt 429

<210> 53484
 <211> 401
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-B12

<400> 53484
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 ccgactccaa gaaggtgacc cctgaggtga ttgctgagta caccgtccgt accctccaga 120
 ggaccgtccc tgctgctgtg cctgctgttg tcttcctctc tgggtggacag agcgaggagg 180
 aggccaccg caacctcaat gccatgaaca agctcagcac caagaagccg tgggtccctgt 240
 ctttctcctt cggccgtgcc ctccaggcga gcacnctcaa gcctgngctt gcagggtggag 300
 aacctgnaga aggctagagc tgccttctc gccaggtgca aggccaactc tgaggctacc 360
 cttcgcacct acaaggggtga tgctgccgcc gacaccgaga g 401

<210> 53485
 <211> 141
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B2

<400> 53485
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 tggctcaaaa aaaaacttat gtctgcttac ccaacatctg ttgaaaaagc caggggaagg 120
 attttttga ccatttcatt g 141

<210> 53486
 <211> 369

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B5

 <400> 53486

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 acttctgctc ttcagatgct tcccctggaa agaccaacaa cacctcctgt tcttatttca 120
 gttgcacagt tccgcccaga aaaggcccat ggccttcagc tggaggcatt tgcacttgct 180
 cttcaaaagc tagaccctga ctttcctaag ccaaagattc aatttgctgg tagttgccgg 240
 aataaagagg atctggacag actacaaaag cttaaggaca ggtccactga actacacata 300
 gatgagcttg tggagttcca caaggatatt tcttacaggg acctggtaca atttcttggg 360
 ggtgccatt 369

<210> 53487
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B6

 <400> 53487

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 tttgaccgac aaagaatggc gtaggagaaa aatgcaaag aggatatcag aggaagaagg 120
 aagacttaag aaggatgagg aggaaacaaa agagatgtgg aagaggaaga gagagcatga 180
 agagaagtgg gaggagacca gagacaagcg ggtctccagc tggagggatt tcatgaagac 240
 aggaaagaag ggacggaaag gtgaaatcaa gccccaaaa ctgaagactg aagatccgaa 300
 caaatcttat gtgcaaaggc cagtaaagcg aaactgagtg gaatgtcagc aatcaaagaa 360
 c 361

<210> 53488
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-B7

 <400> 53488

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gcaaagaagg caaaatgcaa aataggggtat cgcacggcac tttagcacia tggcatgtct 120
ctaatagggt atgcattagg aggtaaaatg catatgagag gggatatgca aaatacagta 180
ttgatttgca tatgcatgat ctgttggagg aatctatact atatgttttt tttgtgaaat 240
tgaaagaaaa gaaactaccg atctgaattt attaactagc atgatgcgga tcaaccgaag 300
acttaggctg ctgcaaaagt tatagtctat ggcgggaagc tatatgcagg aggggtggttc 360
cggttccctc c 371

<210> 53489
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B8

<400> 53489

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acgccaggca cactggaccg tgcgctaccg tactatccgg cgctcccggt cggctcgtat 120
taccctccgc cggggacacg gtacttcgag gtcgacggcg cggccaggac gccgtcttac 180
taccaccgc cgagtcaata cccgtaggag ttcggcggat aatctgcaac gttgtggaac 240
agtggacgat gtttccaagg ttgctccgcc gcttcccgcc atgattgcca ttgaagacag 300
gtcatattgc cgcggtgcgt ggcgtgggtg ctaggctgca atatgccggc ttgttcggg 359

<210> 53490
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-B9

<400> 53490

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gtgagagtgg ggattcaagt ttcaaaactca ctatcgaggg gggataggaa ggtggtcact 120
catcgggtcca cagctagctc gtcgcccccc atggctgact ggggccccgt ggtgatcgcg 180
acggtgctgt tcgtgctgct cacgccgggc ctgctgttcc agctgccggc gcacggccgc 240

atcgtcggat tcggcaccat gcacaccagc ggcgtcgcca tcctcgtcca cgccgtcctc 300
tacttcgcgc tcatcaccat ctctctcatc gccatcggcg tccacatcta cgccggctag 360
ctagggccgg gtgtcttcta ttccacaccc ccttcgtctc ttctctcat tatcggtccc 420
tgctagcttc ctagtcatgt 440

<210> 53491
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C1

<400> 53491

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caccaaggat actgagtagc tgaactgcag cttgctgcat cgctaaccac aaaggcccaa 180
gttattactt ttgagacacc tattttcagt tctagccctt ccttcccat ttcgattttg 240
tttggttaagt cctcccgatc tgtatttatt aacttgcatt atgcgggtca ccgaagactt 300
aggctgctgc agaagttttg tctctggcgg gaagctatat gcaagagggt ggtaccggtt 360
cg 362

<210> 53492
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C10

<400> 53492

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ttgggtccgc tgattttctg ctgagagccg atgtcgagga ctaatggatg tccgtactcc 180
cgagccctta gaggaggggt cgtccatacc gtagttgttg ttacaactcc gatggattag 240
cttgtgagcc actgtgcttc tc 262

<210> 53493
<211> 395
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-C11

<400> 53493

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ctggacacag aagtatgcca tgggctagaa gcaaggctaa aagctggcca aactggtgaa 120
tgtgccggac cccaaatcgt tatcacctaa ataaccagtc aagtcgcaag tatgaatgga 180
cttttgagga ccattgtgcc ctgttgaact catgtattac cttgtgaagt ccgttgtgtc 240
tggtttctac ctgaccgttt cgttatctga tgctgtttct ntaatatctg atgctgcttc 300
attaaccata cttctatatg gtttgtggtg ttgctgtttg tttaatctgt cagctgcttg 360
acgtttcact gaaagaaaga cgttccagtg agcgc 395

<210> 53494
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-C12

<400> 53494

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ccatagctct agcgtgtgga agtaaagctg gctttgcgtg tatgacatgt ctaatgccaa 120
cccaatcgtc agctttggaa tgaagcgtgc cattgatgat atactgaaat gagttgatca 180
gtgcaattct ttgacatcta actatttatt attatatgag atgggaggaa ctgatggaga 240
ataaatgctg ctgtagatnt gtagaagttc aaaaaaatt gggtagctct tgacaagttt 300
gtagcccaag gggtagatca tacagtttga gatgaggaca ctatgtatac tgtttgagac 360
gaggacatta tggatactac tctagaaggc taccgaaacc aaatttgcac ctgtttatt 419

<210> 53495
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C2

<400> 53495

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gtataacacg tgaacacatt ggtgctgatg taaagtcgag caggaaggaa caatacagag 120
atcattcagg ctagtggtgc tctgatcaag atatcagata ggggtgacta tataatctggg 180
acatctgaca ggaaagtgc tattactgga acacccggag ctatccggac cgtggagtcc 240
atgatcatgc agaggggtgc agccagataa cagaggtgat gagccccctt tgaaggaagg 300
gcgtaagcca ttgctgtgct cgagcacaga atcgtgtttg atgcaagtta ggaggatg 358

<210> 53496

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C3

<400> 53496

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cattcaggct agtgggtgctc ggatcaagat atcagatagg ggtgactata tatctgggac 180
atctgacagg aaagtgcga ttactggaac acccgaagct atccggaccg cggagtccat 240
gatcatgcag aggggtgtcag ccagttcaga gaggtgatga gcccccttctg aaggaagggc 300
gtaggccatt gctgtgtccg agcacagcag cgtgtttgat gcaagttagg aggatgtggg 360
aact 364

<210> 53497

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-C4

<400> 53497

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tgcgcggcca cgggatcctg acgcgtagcg ggagccagtt cggctcggac cggaggtacg 180
 tccgggtcag catgctcgac cgggacgatg cctacgacat ctctgtcaag cgctctcct 240
 ccctgcactg aacaggccgg gtcggctaca cgcattgatg gcatggagat gggaggagga 300
 tcgatcccat gccgccggc cggcgtcggc attgccggtc cgtggaacag tgtgag 356

<210> 53498
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A9

<400> 53498

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 ccgccaccg agatggggcg ggacgagga atcctcctcc gcgagtggcg gagaaaaaat 180
 gctatggaac ttgagaaaaa agaacagaag gagagggagc tacgtgcccc aataattgct 240
 gaagccgaag aattcaagaa agcctttttt gagaagagga tacagaactg tgcgtcaaac 300
 atggtgaaca acagagagag ggagaagatt tttgtagcca gccaggagaa attccacgcc 360
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 atc 423

<210> 53499
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H11

<400> 53499

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 cttctattac tagtgcagaa gtaagccagg atggcagggt catcactaca gcagatggct 240
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gcaatgtgga gtcagcttca cttgaaccca agtctgggag taaatttgta gctggaggag 360
aagaatttgg ggttcatgta ttcgatttct tcaact 395

<210> 53500
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H12

<400> 53500

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ctacaacccg gactaccaat acgagtacat gctctggacc tagagcctct acatccgcaa 180
ctgctatcgc tgcgtccgca tgggtcaacaa catctacctt aactactacg ccttacacgg 240
tgacgaggcc cactg 255

<210> 53501
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-H2

<400> 53501

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cggggaagac catcaccctc gaggtggaga gcagcgacac cgtcgacaac gtcaaagcca 180
aaatccagga caaggaaggg attccccag atcaacagcg actgatattc gctggcaagc 240
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tggtcctcag gcttangggg ggaaccatga tcaaggtaa aactctcact gggaaagaga 360
tcgagatcga cattgaaccc actgactcga ttgacaggat c 401

<210> 53502
<211> 401
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H3

<400> 53502

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ccgggggagg aggtggcggg ggtggtagcg gtggcgggtg aggcgggtgg tacggaggac  180
caggctatgg gtccggatca gggtaggtg agggcgggtg cagcggagggt gctgctggag  240
ggtagtgaca tggtagtgcc ggcggcggcg gtggtagtga gggtagcggga gctggtaggt  300
ctgggtatgg gtccgggcaa ggatctggct acggagctgg cagcgggtgct gccggtaggt  360
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<210> 53503

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H5

<400> 53503

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cggtagtcag cgtcaacatc gagcaggagg tgaagggtga cgggaaccaa atcatggaca  180
tgtacatgaa gagtatgcag caattcacgg attccctggc caaaatgaag cttccagcct  240
tggacataga caacggtagc agcgggaaga gcagtcccgc agcagccaca cccagcgcag  300
actccactgg tgccgactcg accgcggtga agaagccgac cgccgcccggg cagcaggaga  360
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<210> 53504

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-H6

<400> 53504

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agaagaagag caggaggatt gagatatccc tgtactgtct tgccagagct atcgagagtt 120

ttttcacatg gatgaccgat gcaggactct gccctccaat acttcagata aagcgagctg 180

atgtggttgt gttcagcata gctacctcta tcattatgca ctgctatgcg caggaaagag 240

aagtcttccg gtccaagtac ctgaatgtgc tggactgggt atttggtgtg ccgncaccac 300

ccgacagtga ggataagaac tgctatctac cagatgaagc caggaaatgc cagtgcata 360

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<210> 53505

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H8

<400> 53505

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cgagaaatta caaattatca ggttcctatc ttacgcactc cttcatctct acttcttact 120

tattatatat aatcacctac ctacacttca ctgtactcaa ctttactaca ccctaaattg 180

taaaaaccct tgagttacat accttattct ctttatatta tatc 224

<210> 53506

<211> 323

<212> DNA

<213> Zea mays

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cactaatact agacgcattc tcagggtccg atgttccaca gggcacaaca acacaatggg 180

agcctgcacc ttcttaaagg cactgcagct ggaaagcgct ccgggggtccc cagttacccg 240

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323

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gccgaaggct ccatatttca caatgcaact ttgctgaat gttaatttac tgcgccaaat 180
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<211> 438
<212> DNA
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<223> Clone ID: LIB3079-038-Q1-K1-A12

<400> 53508

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cgtcagcgcc atgctttcat aggttttagc ttccgggaaa gacctgaagc atatgacttc 300
caagctgccc tacatgatca tatgaaatat ttaaacaaga agaaagcggc tgaagagatg 360
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gttcttcagc ttaaaaat 438

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<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A2

<400> 53509

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agatgtataa gtgcattctt acactctgat tgatggacac cctagtggtc caattttgga 240
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<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A3

<400> 53510

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cacgaggcca cggagggtggc cgaggcgccc gtgtcgacgg acaccgacgc tacgaccgtt 180
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<210> 53511

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A4

<400> 53511

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cctcaccgcy ctctggagga agcagcgca gagcggccag gtggaccgcy ccaaagcgac 180
gcagcagggg acctacgagt cgctgtgccg cgacgcgacg atcctgttcg gcacgtggga 240
gttcgacccc acggagatcg agaaccggtt ccccgacggg gagggcggcg tcagcatctg 300

gcaggggccc caggacaaga tcgtccaggt ggagatccag cggtagctgg cgca 354

<210> 53512
<211> 221
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-038-Q1-K1-A5

<400> 53512

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tggagcgtgc acctntttac aagccacgga cggggaaaac c 221

<210> 53513
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A7

<400> 53513

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accacggaac tggctgctgc tcaagaccgc ctaactgatt tggagaggca aaaggatgat 180

attatgaggt cctattcccc tgccgcactg ctcaacaagc tccaaacatc aatggcaaag 240

ttggatgagg agtccgagga gctgcaccag aagttcctgg agaaggacat cgaccttcca 300

acctttgtgc agaagtacaa gaagctccgc acggcttacc acaagcaggc gttgctccat 360

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<210> 53514
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-A8

<400> 53514

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cacaagggtg ctaactatgt ggttgagaaa ctctgtcttg acaaaccatt ggatggaggc 180
tctgatagta cgtttggtat gggattgagt tctgctcaat cacagctctc acagctagat 240
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<210> 53515

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G9

<400> 53515

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<210> 53516

<211> 298

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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tgatctgctt gcatgaatct gtttggctgt cgagccaggc tgtggtgttg aaaaaccttt 180
gtttgtgtcc tgccccccct gggtaatgtt tgggtgtttc cttccatcat cacttgctga 240
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<211> 395

<212> DNA
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 <223> Clone ID: LIB3079-037-Q1-K1-F5

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 ataaaaacaa aaaaaaaaaa aaaataaaaa aacaaaaaaaa aaaaaaaaaa aaaaaataa 180
 aaaagaaaaa caaaaaaac tacaaaaata aaaaaaaaaa aaaaagggcc gcccgcttta 240
 caggacccaa ttttatgtcc ccgcacatgc aaagtaataa ctcttctata gggctaccta 300
 aactaaatta actgccctcg ttttaacaac tccgtgattg gaaaaacctt ggctgtaccc 360
 aatttaatcc ccttgcaaaa aatccctttt ttccc 395

<210> 53518
 <211> 365
 <212> DNA
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 <223> Clone ID: LIB3079-037-Q1-K1-F7

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 agtatccttg atgcgaaata taattctctg atttgtttag taactgagta atccatacga 180
 gtgttctgca gatattctac tttgttggat ttggattggt ttgtctggaa tcgttgctca 240
 gcatctgggt catccagcaa gtgtacatgt acttccgtgg aagtggaaag gctgcagaga 300
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<210> 53519
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-F8

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 accagctcgt cctcctcttc gatgcaagct ttttccgacg ggcgtcggct ttcctcaacc 180
 tgctcatggg cacgctcaag atcgtcgccg actactaccc cggccgcctc caccgcgcct 240
 tcgtcatcga cgcgcctcc ctcttctccg tcctctggaa gggagtgagg ccgttcgtgg 300
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F9

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 atgctgccat gaccccgatg gaccatact ctgcatcaat atacttttgc tacattgaac 180
 acaatcacac tatgaactaa tacatccatg caccactctg atatgatacc ttaacaagac 240
 tcaagcccac tgactaacat acttatcgac ctcatcgaga accgccat 288

<210> 53521
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G1

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 acagcatata tgttttcttc tttttctctt gttccctttt gctcgatgaa accagtccac 360

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405

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<212> DNA
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<223> Clone ID: LIB3079-037-Q1-K1-G10

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<210> 53523
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<212> DNA
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<223> Clone ID: LIB3079-037-Q1-K1-G11

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<210> 53524
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<212> DNA
 <213> Zea mays
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<210> 53525
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 <223> Clone ID: LIB3079-037-Q1-K1-G2
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 aatgataaca catatgaccg tttatgtata cctctacgga cgctgtatc ttgtcctaaa 180
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<210> 53527
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<223> Clone ID: LIB3079-037-Q1-K1-G5

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<223> Clone ID: LIB3079-037-Q1-K1-G6

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ctttgcaagc attcatagac cacggcaccg tttcaaggac agttgatgcg aacgtgtctt 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G8

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aagaaggcac acgccgttgg ctctttctct ggccccccac tcttagagca caatgccag 360

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<210> 53531
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<223> Clone ID: LIB3079-037-Q1-K1-F3

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 <212> DNA
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<223> Clone ID: LIB3079-037-Q1-K1-D7

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<212> DNA
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<210> 53536
<211> 365
<212> DNA
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<223> Clone ID: LIB3079-037-Q1-K1-E2

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ccctttgccg cggttctcgt cgcttcgcc gccgccttcc ttttggccgc cgtccgcaat 300
tgagccgatg gggcctcaag cctgcaggct acctagcaga acttcccccg ccgcctcggc 360
cgccg 365

<210> 53537
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E3

<400> 53537

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gacgtgcctc gtacactcat tacttttatg aagcaactgt tgggtgctggc ctcccaatca 120
ttagtacctt gcgaggctct ctggagacgg gtgacaagat actgcgtatt gagggcattt 180
tcagtgaac tttgagttat atatttaata atttcgaagg aacaagggca ttcagtgatg 240
tcgttgctga agcaaaagag gcgggataca ctgaacctga cccaagagat gatctatctg 300

gaactgatgt tgcccgaaag gtcatta

327

<210> 53538

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-E4

<400> 53538

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gcgaggctgg actaccgccg ccgcccttcg ccgatatctt cagcggcgaa cagcgccac 120
cagatcccgc ccttgcgatg gagtccgtgg tgaacccgaa ggcatacccg ctggctgatg 180
cgcagctgac gatgggtatc ctcgatatca tccagcaggc cgccaactac aaacagctta 240
agaagggagc gaatgaagcg acgaagaccc tgaatagggg catatcggag tttgtagtga 300
tggcggcgga cacagagcct ctcgagatcc tgctccacct ncccttggtg gctgaggata 360
agaacgtgcc atatgtgttt gttccatcga agcaagctct 400

<210> 53539

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E5

<400> 53539

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tctccggagc gcacgtcaga tcaggtgcgc cgcgcccccc tcgcctaagc tgcgacgacc 120
atccatcgaa caggaaggat gacgggctcc atggatctcc cggccaaggg cgggttcagc 180
ttcgacctgt gccgccgga caacatgctg gagaagaacg ggctcaaggc cccgggattc 240
aggaagaccg ggacaaccat cgtcggcctc gtctttcagg atgggggtgt tcttggggca 300
gacacaaggc caactgaggc ccccatagtt gctgataaga actgtgagaa aatccacttt 360
atggcaccga atatatactg ctgtggagca ggaactgctg cggacacgga ggccggtaca 420
gatatggtga gcttccagc 439

<210> 53540
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E7

<400> 53540

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tgattgctcg gcttccacca gtggcttctt atgtttaccg gagaattttc aagagtggga 120
aatcaataga agccgataat tctttggact atgcggcaaa tttctcacac atgcttggtt 180
ttgacgaccc aaaaatgctg gagctgatgc ggctctatgt aacaattcac actgatcatg 240
aaggcgggaa tgtcagtgtc catactggtc atctggttgg gagtgctctg tcagatcctt 300
atctttcttt cgcagcgggt ctaaattgggc tagctgggcc actgcatggc cttgcaaate 360
aagaagtgtc tttatggatc aaatcttgaa ttgaagaaac tgggaatggt gttaccacag 420
atcaacttaa agacta 436

<210> 53541
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F10

<400> 53541

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aggtgagtct caaaaaaagc gcgtctcatg ccaattaaag aatccattga tcacaaagaa 120
gctttgttcc aatcccccta attacccatc ctcttcatca ataactatgg cttcttctgc 180
aactctgcta ccataaacat gtgctccaaa tgccacaatg atattattac taatcattat 240
catgccaac ttgctttcta ctctatcgac 270

<210> 53542
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F11

<400> 53542

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gcattcttatg ttcagtattt ccttccctgt ttcattgaagc atgccttttg cattgatttg 120

atgctgcagt gattttgttg ctgccaaatg caatgttgct tatatttgtc agattgaaca 180

gaatcacact gtagctaata cagtatgcaa agctctcatg tcatagatta agaaaactca 240

aaaccagtga ttaacaaaat ggtagacctg ggagagtgcc cccatattct ttatccactt 300

ctacctagtt attctagagc ctaaggctat tcggactcat accactctta atttggactc 360

taaaagaaat attctattct tggcaacaaa attctttacc ctatactaca attcttcgca 420

gtca 424

<210> 53543

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-F12

<400> 53543

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cgtgatgaag ctcaggacag agctcccgag ttgaagatga actccatctg cgaggaatcg 120

aagctccagc atcagaaggt cccaaatgac ctgttgagc atgccaaagc tgatgctcaa 180

acagctctcg aggagataga tcttgactaa gaaacatgat gatatgcccc aacttcatgt 240

tttggcgctg atgaaatctc tgatccctct ggggtgacag actggatatt gcaaacacgt 300

ctgattatat attgatgaca tgtaaaactc aattgactga actacggatc tgaattgatt 360

gatgtcatag ctgctgctat tgacattcaa aaaatttacc ctatactaca atacttcgaa 420

atcatatta 429

<210> 53544

<211> 379

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-037-Q1-K1-F2

<400> 53544

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gaaggcaatc gagaacgcga tccccggcgg cgcggtgctg gcgggagctg tggcgcgggc 120
tgacgtacct ggtgatccag acggccgggt tcatgcggct caccttctgg gagctgtcgt 180
gggacgtgat ggagcccatc tgcttctacg tcacgtccat gtacttcatg gccggctacg 240
ccttcttctt cgcaccaag aaggagcctg cgttcgaagg cttcttcgag agccggttcg 300
cggccaagca gaagcgcgtg atgcgcgccc ggggcttcga cctccgcagg tacgaggagc 360
tccggagagc ctgcngcgt 379

<210> 53545
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-D6

<400> 53545
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gctgacgggc tggaatccgc tggcgcccgt cctccagacc gtcgccgctt tctcccgcca 120
catcctcatc gccccgacg cggggctcga cgaccacgc ctccgcccc ttctagcgct 180
ctccctctcc ccgccttcgc cggcaccacc gcaaccggag gtccggaagg agaagaagga 240
tgccaaggag gcgcactga cgaaggagga ggtcggccgg gccacgtgga tgctgcttca 300
caccatcgca gcgcagttcc ctgacgaacc tacgaggcaa caaagacggg atgcaaagga 360
gttgatgcat ataatctcga gactatatcc ttgcanagaa tgtgctgac actt 414

<210> 53546
<211> 221
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C11

<400> 53546
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tgggcgctct tcacatccat ggctacgaac tcttccatcc taatcgctca ctacactata 120

actatacaca attccaatcc catgctccca accttcacg ccacctacac ctaaaccct 180
ctcataacac acctatcact gcattcaacg aatacatatt t 221

<210> 53547
<211> 362
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-C12

<400> 53547

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taggtggtga cctcccttcg gttaaagatc cgcgacaaag tttctaagtt gagtttgatc 120
tttgaagtgc aaaattgttt tgatcatacc ttgangacat cctaaaagca ggtttgggat 180
tcatataacg agtttttaat gagacaaaca agttctaggg tcaaaggcaa tatgaatgac 240
atgttagatt caagtattca acaggatctc taggagtaga tcagtggggt aaactgtggt 300
ctgtanggta atttcaggtt cttaactaat atatcaaac agtattagat tgttaccgtc 360
ag 362

<210> 53548
<211> 338
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-C2

<400> 53548

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gcagcgacga cacggactcg atggcgccgg gcacgcccgc gacgcgaagg gcgttgcgct 120
tcttgctggc gagcttggac acgacgagcg ccgcggacgc ccgcgcgccg cgctcggcgg 180
cgcccttcca gctgagcatg tccacgaggc gctccacgac ggcgggcgac gtgccgacgc 240
ggcgcagcgc gccgtccccg agccgcgggc tcgcggccac gttgacgagg atgccacgc 300
cgatgcgctg ctcgctcgtg gacccgncga cgatgagc 338

<210> 53549

<211> 449
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-C3

 <400> 53549

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 aaccataaag tcctctctcc gttctaagct acactccttt ggagttaagg aagagcttac 120
 tgttttctcaa atcaaggctg aaatggagaa gaccctgcgg tggcttgtcc ctattgcaag 180
 taacaccacc aaggctcacc atggtttcgg ttgggttgga gagtgggcaa atactgggtc 240
 agatgtgaac tgcaagccaa atgggcagat agacctgac cgaattgaga cactgtacca 300
 cgctgacaag gagaagactg aagcatatat cctcgagctt gttatttggc ttcctcatct 360
 tatcagccta tccaaaactg caaatggtga aaggtctcca atcaagtctc ctgttcgggtc 420
 tcctacacaa agaggggcct caatcacat 449

<210> 53550
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-C5

 <400> 53550

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 gtcgtcgttt cgtccaggcc agggcccttc gctgcgacgt ccggtcgggt cctggcgact 120
 gtcacctgta aaggcgggca cgcctcgatg cccacgaat ccatcgaccc tgttgtaact 180
 gcagccacta ctgtcgtcag cctccataat atcatcttcc gagaaatcga tccccgcag 240
 gtcgcgggtg tgtccgtcac tcttctgaag ggaggagaag cgtacaatgt catcccagat 300
 aatgtggcct ttaacggcac catgatgcgc atgactgatg aaggtctatc ggatcttaag 360
 aacaggatca aagatgatcg tccaatgaca tgc 393

<210> 53551
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C6

<400> 53551

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gagccctcct tgcgcttctt gccctttttg tgagcgcaac aaatgcgttc attattccac 120
aatgctcact tgctcctagt gccattattc cacagtctct cccaccagtt acttcaatgg 180
gcttcgaaca cctagctgtg caagccaaca tgcaacaaca agcgcttgcg gcgagcgtct 240
tacaacaacc aattgcccac ttgcaacaac aatccttgcc acatctaaca atacaagcca 300
tcacaacgca acagcaacaa cagttcctac cagcactgag ccacctagcc atgggtga 357

<210> 53552

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C7

<400> 53552

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tgatgaacct tgggtgtgct actggccatc ctagctttgt catgtcctgc tcattcacta 120
accaggatcat tgcccaactt gaactgtgga aggagaagag ctctggcaag tatgagaaga 180
agggtgtatgt gtcctccaag caccttgatg agaagggtgc tgcctccac ttggggaagc 240
ttggtgcca gctgaccaag ctcaccaagt ctcaggccga ctacatcagc gtgccgatcg 300
agggtcccta caagcctgcc cactaccggt actaggcaca cggcttgag ctcactcggg 360
ccgttggtgtg ctatgaagtt cgctacactg gcctgtcagt tatcttttgc atgcatatgc 420
attatcatat acgcagtcgc gtagcaggtt ttcttatggt tatcgcttga gctgaggggg 480

<210> 53553

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-C8

<400> 53553

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ggagcgactg cagaaaattg acaatgataa ctaccagag actctatacc aaatgtttat 120
 tgtcaatgct ggtccgggtt tccggctact atggaacact gtgaagtcct ttcttgatcc 180
 caaaactacc gccaaagatac atgttcttgg gaacaaatac caaagtaagc tgcttgaaat 240
 aattgacgcc agtgaattgc cggaattcct tgggtggcact tgtacctgtc ctgaata 297

<210> 53554
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D1

<400> 53554

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 agtcatgcc a ttgggtacca tgaacccatg catgcacgta ctgcatgatg caacaggggc 180
 tagccagcta gatggcgtgt ccgtacctga tgctgcagca actggtggcc ttaccgcttc 240
 agacgatgcc agtgatgatg ccacagatga tgacgcctaa catgatgtca ccattgatga 300
 tgccgagcat gatgtacca atggtcttgc cgagcatgat gtctcaaagc atgatgccac 360
 aatgtcactg cgacgccgtc tcgcagatta tgctgcaaca gca 403

<210> 53555
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D11

<400> 53555

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 gggatcgacc acgaggcgcg cgacccaag ctccccttcg agccggagaa gctcctcaac 120
 ctgcactcct ccgccccgc tgctgccgcc gccgccgcc ctgccgccgc cgctgccgag 180
 gccaccacct ccaagcccaa gccggcgctc cgcggcagcc tcaagaagta agcttgctgg 240
 gcttggttgg ctgcgccgcc tgcattgggc gcaattccct tcggtttcaa tcccatccgg 300
 cgacccgac tataatcaat caaacggcg ccctacggcc tggcagctgc cgagtcggc 360

ctgcggtgta ctgttagtct gctgctgatt tcccggtgta tactggtggg acatgtgtcc 420
tgtgatagat gtgtcaacta tatatcaatc tc 452

<210> 53556
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-D2

<400> 53556

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gctcggactc ccacaccaac caggcgctcc ttcgacccat gtcgttcgcg gccaaaggacg 120
aggtgtttctg cctgttccag ggggtgctgg acaacctgag tcgtctgagc cagcagcact 180
ggctgtcaag caagggcgcc aacgaggtgc tctcgtcat cgaggcctac aagacgctgc 240
gcgaccggcg gccctaccg gtcagcttca tgctcgcca gtcaccggc tactacgcct 300
tcgtactctt cgacaagtcc accaactgcc tgctagtcgc atccgacccc gagggcangg 360
tgccgctctt ctgcgggatc acc 383

<210> 53557
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D3

<400> 53557

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gcgcgcggtg aacagtggcg ctggcggctt tgacggcgac atgtcacgct cacggggcta 120
cggcttcggc agcgggtgctg ctggtgctgg tgctggcgct gcccgacta ccaaccgccc 180
cggttggaag tccggagact ggatctgcac cagatccgga tgcaacgagc acaacttcgc 240
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ctacgaaaac tacttgact gaggtgtagg atcgagcaag ttaaaaagtc tgcagcgccg 360
aagaaaggcg acgacagagg agtcctcatc acgtcgtaac gtaagagaga gagagagtag 420
tggatttgca acaaaaaaaaa aaaaaga 447

<210> 53558
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D4

<400> 53558

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 tgagaccgac atctacgcca agttcatcat gtggctcttc cctgacctgt tccgatgaca 180
 gacaacgccg ctctgtctctg taatgtctct gtaatactgc tgcataccaa acctacaaac 240
 cgatagcgca cactactgag tactgaccag gcaaggaaaa gtaagcttgc ataaaggctc 300
 ccccagaatc caacaccgtc acaggcagag tagcgctgta aagatcctag aagcaacggg 360
 ttttccagct tgctagatct gattctgtat aaatagttga ttctttcgtc attcattca 420
 tagtgctgta gatgtgcacc tttgctggga atttataatc 460

<210> 53559
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D5

<400> 53559

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 cgggagcgag gcgcgcgagc gagcgagcgg agggaggagg aggatgatgc acgccaagtc 180
 ggagtcggac gtgacgagcc tggcggcgctc gtcgccgccg cggtcgccga agcggggcgt 240
 tgccgcggcc ggcaccggcg gcggcgggcg cggtactac gtgcagagcc cgtcgcggga 300
 gtcgcacgac ggcggcgggcg gcgggtacaa gtcgtcgtcg atgcaggcca cgccggtgta 360
 caacaacagc cccagcgagt cgc 383

<210> 53560
 <211> 285

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-C10

 <400> 53560

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 gattcggttt acacacaact tgtctactac acttatgctn cgcacatact tgactttcta 180
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<210> 53561
 <211> 472
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-A5

 <400> 53561

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 ccgtctcgcc ccttcggctc tggcccacct ggtgaccgcc ccaggggccc tctctgttat 180
 gaaggtgaca ggcctagggt tggatgatagg gatggttaca gaggagggtcc acgtggcgct 240
 ccaggtgact ttggtggtga taagggtggt gtcctgcag atttccaacc atcttttagg 300
 ggtagcagac ctggctttgg ccgcggtggc ggcggtgctt tcggtgctgg tggatcttcc 360
 atggagtgat gtgtcaacat gagctagcat aacattcgtc tttgaactat gagaacaatg 420
 agattttgct ttggtttacc gagctgttgc cgtgggttga catggttttg tg 472

<210> 53562
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-037-Q1-K1-A6

 <400> 53562

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gacttattga ggtggccatt gccctagaaa aggcagcgt gtcagacgaa tattttatca 120
agaggaagct gtatccaaat gtggatttct actctgggct aatttatagg gcaatgggat 180
tccctacaga attttttctt gtgctgtttg ctattcctcg catgggtggc tggctagcgc 240
attggaaaga gtcactcgat gatcctgaca ctaagattat aaggccccaa caggtataca 300
ccggcttctg gcttaggcac tatacccccg tcagagaacg agtgctatca agccagagt 360
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<210> 53563
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A8

<400> 53563

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gtgctggatt tagaggtcaa gtaaaactca ctggcttgct gaatggggat atcgacctta 180
ctaattctct ttggacatat cagattgggt tgaaggtga gttttcaagg atctattctc 240
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tcacatgggt caagactatg tttgatgctc cagaaggtaa tggccctggt accattgatc 360
ttgggagcat gggaaagggc caggcttggg tgaatgggca tctcattggg cgctattggt 420
cac 423

<210> 53564
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-B1

<400> 53564

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cttcgtctgc tggcttgccct gggccaccag caacgagtcg ctggagaatg ccttcgcctc 180
ctacggcgag atcctcgact ccaaggatcat caccgaccgg gagacgggga ggtcccgcgg 240
cttcggcttc gttaccttct cctccgagaa ctccatgctc gacgctatcg agaacatgaa 300
ctgcaaggag ctcgacggtc gtaacatcac cg 332

<210> 53565
<211> 267
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-B10

<400> 53565
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gcgggagcgc caatgagtgg ctgcatggc ctggtcggca cattagcgat ggtcctccgn 120
gccgccgtag gaacggccgc aaccgatgct gccgaagccg accagatcgc taatctacct 180
gaacagccgg cagctatact tttcatacac tccgactacg gcaacgcaga cccagcgctc 240
ggtcggtgcc tcttctactg gttaatc 267

<210> 53566
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B11

<400> 53566
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attggaaagg gtatcattga ctgggctcag gtgctctgac cagcttgtgc gctgtcatalc 120
catccagctg ggatacacta ctcggatctg acgctgtcaa cgtccacatg aacagtaact 180
agtaaagtga catacttacc aaacctttca tacactga 218

<210> 53567
<211> 410
<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-B12

<400> 53567

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gggtgaggta aacaccaagg caccgtcatg gggcgtatgc acagccgcgg gaagggtatc 120

tcttcacggy cgctgccgta caagaagact cctccgatct ggctcaagac agtaccacc 180

gangtggagg agatgattac caaggctgcy aagaagggcc agatgccgtc gcagattggt 240

gttctgctcc gtgaccagca cggcatcccg cttgtcaaga gcgtgactgg tagcaagatc 300

ctccgcaccc tcaaggccca tgggttggyg cctgaaatcc cggaggatct ctacttnctc 360

attaagaagg ccgtggcgat taagaagcat cttgagagga acaagaagga 410

<210> 53568

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-B2

<400> 53568

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ggaggggtgt gggtcggcct ccaaagagtg ggcagaggat tgctggggca caggaaaata 120

gccccatcaa aggcaggaaa agtagcgctg gggcacaggt agatagcccc agcaaaggca 180

ggaagaggag tgtggaagca catgatgata gctccagcaa agggggcaag aggagccggc 240

ggtgaagcta ccatcagctc aatgccggtg aaactgtgta cagcttaacc atatatcata 300

agctgttccc ttccggtttg gttacctgac aaaaaaaagt tattgtccca gtattcaaac 360

tgatgtaaca ggaaggggta gttggttctg atgttgnttt gtaaggagta aggacaatta 420

gaagggaacc ctcaatttta tattgagaat attccgagta ggctt 465

<210> 53569

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B3

<400> 53569

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aaaacaaccc ttttataact ccccttaatt taaataacat tccctttttt taacatcccc 120
taatctgaaa aatcccaggc ttttcccaac ttactcactt tgaaacacac tccattttcc 180
ccatttctct ccttttcaaa aatccccctt ttctaccttt ttaaaaatta ctatcaaccc 240
aaaatgtaaa ctgttccccc ccttatcgcc ccctattaac cccaacggac cttccttttt 300
ccc 303

<210> 53570

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B4

<400> 53570

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tgccaacgga tgcttcaaag cctcatctca aaagctcaac agtgtaacaa tgagaaactt 120
ctggagaacc cataccttca gatgcgtggg atattgcagt tatcaaataa cctaggagtt 180
caatgataag atcgtgatga catttcaatg gataaagctc taagttagaa tcattacttc 240
tggctgtgtt tattgcagag aacctgaaga tgttccgaac taagttttgc agatgctatg 300
tgaatcatgt aaattattgc tttggccaga tgcattgaca gatccatgaa tttctttatt 360
ctttggtaga ctagtcacag tccaagggag tcacagatta acaaggatat ctgatgatca 420

<210> 53571

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B6

<400> 53571

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gcaagcctct cccatggcgc ttgcagcagg acacagagcc ccccatggcg ccttctctct 120

cctcggctcc aagggtgtag gcgagctgca gtcctcctc ttcccatgg gcgcgtcccc 180
cctgcagccg agtcctgca catggcgctc atccctggtc tcccttgcc aggggtagag 240
gcagccatgg ccggacctct gctcggccaa cagcttgggc gcctgaagtt ccctatgctc 300
ggcgccccctt cctgcgcagc gcgcttgct caccctacc ccagcgcccc ctctctccca 360
tggcgagca gcagctctgc tcgcccccc tctttttcc ccttgtgcag caacaccaac 420
ctgctctttt cctccacaaa ac 442

<210> 53572
<211> 306
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-B8
<400> 53572

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ggccgggagc gatgatgggc tggcggtgac ggagcagcag gtggcgaagc tgatggagga 120
ggacatgggc accgccatgc agtacctgca aggaagggc ctgtgcctca tgccggtctc 180
cctcgcctcc gccatatact ccgcgacgtg ccacatgcga cctccggtgg gaggaccggg 240
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catgaa 306

<210> 53573
<211> 422
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-037-Q1-K1-B9
<400> 53573

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gcgatagggg tcagcgagtg gctgggatgg cgtcgtcggc gtccgcgcca gcgtccacgg 120
gcccgcgcta cgcgccgcgc gatccgacgc tgcccaagcc gtggaggggg ctaatcgacg 180
gcaacacggg gtacctctac ttctggaacc cggagacaaa ggttacgcag tacgagcgtg 240

ccgtcgctgc cgtgcccgcc ccccaatcgc agccgcttgt ctactccagg cccgatgatg 300
 tgccgagaag cagcgacact gccgagcagc gctcgggaagc tgcggtgagc ccgccgcaat 360
 ttgtgccctc ctccgataac aggacaagga ttgatcactc agagtcaagc tctgcatctg 420
 ga 422

<210> 53574
 <211> 476
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-C1
 <400> 53574

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 tggtcagagc tgttcaagaa gcagattgac aatctgaaaa caaatcacag gggtagcttt 120
 gtccttcaag ataaccgttt tcggtggctt actcgtgttt ctctagatcc acgtacagag 180
 aacacagatt caactgaaaa tgattctgca gcattgggtg atactgcagc ccaaacgact 240
 accatgcttc tgtatttccc atgcgggttg ataagaggtg ccttgaccaa cttaggaatt 300
 tcgtgttctg tctctgctga catgtcaaac cttccagcat gtctgtttgt ggtgcgcata 360
 aagacatgaa ctgtgaggaa tgatacaagt acagtacgaa gattcgacag tatctgcttg 420
 tggttcaagc cgggttgaac attgaagata gcagagtttg ggcattgcatt agatgt 476

<210> 53575
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-037-Q1-K1-A4
 <400> 53575

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 aagaaagaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaata aaaaaaatg gccgcccttt ttaaagatcc caagtttatt tccccggcct 180
 ttcaattaaa aacttttttt ttggacaccc ctaattttaa ttcattgacc gcttttttaa 240
 aacctttcac ctttaaaaac cttggctttc cccaattaaa tccctttcaa aaaaattccc 300

tttttccaag ttgccttaaa tccaaaaagc ccctcacctt taacctttcc aaaaatttcc 360
 caaccttaaa tggcaaatgg aacccccctt ttaacccttc ttaaaaccc 409

<210> 53576
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G6

<400> 53576

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 gcgggcaggt ggtggaggtg ccggcggagc tggtaggggc gggcaaccgg acgccgtcgg 120
 ccaagacgaa agcgttgcaa ctggtagggc gcttcctggc cggcttcgaa c 171

<210> 53577
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H10

<400> 53577

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 ggcacaagct gccctcaac agcatctgga agccatggcg cgagtggagt gacgggtgac 180
 catgctaata tgaaagcgtg cagctggctt aaggggtgctg tgagggtgag gaggacagaa 240
 ctgacctaca ttggctcttt agacgatgac acctgacgtg tgtatgatta ttttggtgaa 300
 ttgtggagga aattagtctc acctgttggc actggagtga atggtggaaa ccaaccatgg 360
 cccttggtct taagatgggt gttgttggtg tagaatacat acacatcgct gccccggtt 420
 tggtttggtt tggtttggtt taaggccctt gtgggg 456

<210> 53578
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H11

<400> 53578

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gaaagatgcc atggccctga aatccgccag ccctaattct caaaaggagc aggaaacatc 120
tttgaactct gaactacaaa gtcaggattg tcctctggaa catgggttta gtgcagattt 180
ggtgaactcc aggactgaaa agggagtcag gactacaagt tctgctagtg ctgttaaadc 240
tgattacaac accatgtttc atcctgctaa tggtagaatc aatgtccttg atcattttag 300
ccgcagcaat ttgaatgatg gttcatcaat tgtcgcagaa agtaagcaaa acaatgaaga 360
tggaagtcta aggggaagtga agaataaaaa gaagaaacga acgcaaggta ctggtagcgt 420
tgaaccaaat gatgttatag aatctccttc ctgagagata gc 462

<210> 53579

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H12

<400> 53579

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cattgaagga tttgttggct gctagttaga atgaacttcc agattctctc gtagcggaag 120
caaagaaagc agtatctaaa ggcaccgatg ataatgctgg tcaagaggct ttgaaaaatg 180
tatttggtgc agctgaggca tgtgaagaat tcagtggaac cttgggttacc ctaagaatgg 240
ctcttgatga tctgtgtggc ctgactggcg aaaatgtggg tcccttacct gggttatattg 300
aagatgctgt taaagctgca tataatcgct acatgacata tctggagtcc tttggccctg 360
aggaaaatta tctaagaaag aaagtggaga ctgagttggg cacaaaaatg atacaaccta 420
aatgagatg caatggcat 439

<210> 53580

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H4

<400> 53580

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ctgtgcagat ttgtgttctt tttccggata cctgaatacc gaaagactgt acaactgtag 120
tttctgattc ctactccttg tgcgtattca atcgctaaag gatctgtccc tgggtggagaa 180
gaaccggcag attcaatgca atgttcttga ctgacgtcat ggattttgtt cttcaacctg 240
gtagctctga agacgaattg aatagctgct agtttctgct aatcatctac agtcaagtgc 300

<210> 53581
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H5

<400> 53581

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gcactccctc cacaacgctt tcagcaccta cggcgaggtc ctcgagtcca agatcatcct 120
cgatcgggag acgcagaggt cccgcggctt cggcttcgtc accttctcca cggaggaggc 180
gatgcggaac gccatcgagg gcatgaacgg caaggagctg gacggccgca acatcacctg 240
caacgaggcc cagtcccgcg gcggccgtgg aggcggcggc ggtgggtacg gtggtggccg 300
tggaggcggc ggctacggcg gtggcggcg ccgatgatggc ggtggcggct acggcgggtg 360
cggcggctac ggtggcggcg gcggtacgg tgggtggtggc ggccggctacg gcggtggcaa 420
ccgt 424

<210> 53582
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H6

<400> 53582

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gcgcgtcggc ggcgtggtca ccaactgggc gctcgtgtcc atgaaccacg acacgcagtc 120
gtgcatggac cccaacgtga tggaggccaa ggtggtggtc agctcctgcg gccacgacgg 180
gcccttcggc gccaccggcg tcaagaggct ccaggacatc ggcgatgatca gcgccgtgcc 240

cgggatgaag gcgctcgaca tg

262

<210> 53583
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H8

<400> 53583

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gtccgccggc agccaacgacc accaccacca cctgcagccg caggggtcgg aggaggacac 120
cgacgtggag gccgcctccc acgtgagcca ggccgaggcc gagccgccgg tcagcagcca 180
gagccaggcg ctggtggcgg accaggaggg tgaggaggtc aggctggaac tcacgctcgg 240
cttcgagcca gtcgtcaggc agcagccgag gctgtcgtgc tgcgactcga gcggtttgag 300
cgccgcgtcg agcctcatcg gcctgcggct gcagc 335

<210> 53584
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A1

<400> 53584

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tttatccgaa gaagttaggt ggaggagcag tgttcagtgg gtgggtgcct ttcagttcat 180
cagtcactga gaggatttca cctgaagcga ggaagacccc gtttctttgg tcacatggaa 240
tggtgacaa agtagtattg gttgaagctg ggcaggctgg tccaccgttt ttgcaaagcg 300
ctggtgttaa ctgtgagttc aaggcatatc cagatctggg tcattcgctt tcccaagaag 360
agctacttta tcttgagtcg tggatcaaga gtcgtctaaa tgcctctcaa gagaaggacg 420
gttaactgat tccatcatgc ttaagtggca tttattta 458

<210> 53585
<211> 257
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A12

<400> 53585

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cgtgcaaaca agctccactg tggccttctg cgctcgaccg ctgtctcagt cggacacggc 180

actgctatca cacaacagcc tctcgccagt gtcgggcaag acagtgtctg ctgtcagggt 240

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<210> 53586

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G5

<400> 53586

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aaaaaacct ctaaaaataa ttatgaacta atcataaaaa acaaaataat atataaccaa 120

aaaatacaaa aataaagaaa atcccc 146

<210> 53587

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F12

<400> 53587

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gcaagaccaa tgtacagcaa cccacctgtt catggtgcac tggttgtttc tataatcctc 180

agtgatccag aattgaagag tttgtggta aaagaagtca agggatatggc tgatcgtatc 240

attggaatgc ggaaggcact taaggaaaat cttgaaaagc taggttcacc tttgtcatgg 300

gatcatatca ctaatcagat tggaatgttc tgctacagtg ggatgacacc tgaacaagtt 360

gaccgttttaa caaatgaata ccacatttac atgacccgca atgggaggat aagcatggct 420
 ggtgttacga caggaaatgt tggttaccta gcaaagcaa t 461

<210> 53588
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F2

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 aacatatctg tcacgccttt actgttcgcc gcgatgctat cctgtccag aatgacggtc 180
 tcattgatgc tattaggact ggctggctca taagtcatgc tgetgacaca accactaatg 240
 ctaacaatga cacctatcat attgatagtc atgatttatt ttttctct 289

<210> 53589
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F3

<400> 53589

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 gggcagtaag tcaagcagt ctttgtatatt tgtaaataagg cattctttat gtttaataaat 180
 ctgtatagaa acaaaattgg tcattcaata atcaatagta ttatcagaat tacatttctg 240
 tactacaaca attattttat caaacaagtt aaaaaactat cttgggaatt ttatccaacc 300
 tatttttttc taagtcatgt ttaggaaggt aggtttgtaa tttttactat tacaagcagt 360
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 attgcttcat t 431

<210> 53590
 <211> 377
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F4

<400> 53590

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gaagccattt gccgccattg ttggtggatc caaggtctca actaagattg gtgtcattga 180
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caaggcacag ggatattctg ttggaaaatc tctcgtggaa gaggataaac tcgagctcgc 300
aacttctctt attgagaagg cgaaggccaa gggggtttct cttttgcttc ccactgatat 360
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<210> 53591

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F6

<400> 53591

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agaaaggctg agatcctacc aaaactcata atggctctga gaaagatgca tcaacagaac 180
cactcggtag atgctcctta cttattacac caactgaaga tagaactgat ggtattactg 240
agcctgatga ccttgcatag aataatgtga atgcacccca agaataccaa gctgcatctg 300
aaattatacg tgataaagggt gcataggggt atgatgtgtg ttgcacacga attactaagg 360
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<210> 53592

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F7

<400> 53592

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gcattattta acaaatgatg atgccacaat gtcactgcga cgcctattcg catataatgc 180
tgtatcaaca gtaaccattc atgaacaacc caatggccat gacgaattca cctatgttct 240
tacaacaact ctttttttga gctacattct aaatataaat atgaaatttg taccaaacia 300
tgatttgaca tgccatcttt attaactcat gattattaac tattactatt a 351

<210> 53593
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F8

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gcttcacga gccggccttc aaggagctgg cctcccgtt caccgatgcc atcttcgtca 180
aggttgacgt cgacgagctc gccggaggtcg caaggacatg gaaggtagag gcgatgccaa 240
cgttcgtgct ggtcaaggat gggaaagaag taagccctgt gattgggg 288

<210> 53594
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G1

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ttgcgtctgt cgtagcataa cactagaaga gcagctcaca ataagtgtcg tgaaggttgt 180
ggatgttgca aaggaatgtg gcaacccggt gccgcctgga aataaatgtg gaacttggac 240
tgttccacca caactgctgg gatgggtgca tccgtaaggg ttcaacaaag cgagcaacia 300
agggcgcatg gataggagtt caacaatgaa agcaatcata ggaaaatctt gagataaatg 360

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<213> Zea mays

<223> unsure at all n locations
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<400> 53595

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gttcaggaac aagcacaagg gaccttgaaa attcacttca gaaggcacia gaaaacttta 180
ttaagagcca gattgagatg ttacagatcc aactgcaa at ggtgcagcgt ggcgctgctg 240
ggccgtccag taacgagaat actgatcaca cataagaatg actgaatctg tgaacagaca 300
cttctgcac gtggtgta at aataaggaga atactgatga gcacacagct gaatctgtaa 360
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ggaaactgtt acatgatgtc tngcctggat tttg 454

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G11

<400> 53596

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ctgtctcca agcgtgatga tgaaccagat aacaatacag aacattctga acaaatgaa 180
ttggcatcaa cttctggcac aagtgatgct gctgatggca caaaggaa at cgtacaagag 240
aactggcttg tgttactttt caggagactt gagaagcaag gcatcacttt acccgagagg 300
tttactgaag atgaattacg cagattttat gttgctgcaa atggtgactt ttcaagtta 360
ctctcttcgg ttaagaagac aattcgttgg agggaaacgt ttcacatact tacactgcaa 420

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456

<210> 53597

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G12

<400> 53597

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tgctccaagt gcaagggcaa gggctcgaag tctggtgcct caatgagggtg ccctgcttgc 180

cagggtcag gcatgaaagt cactattcgt cagctgggcc cttccatgat acagcagatg 240

cagcatcctt gcaatgagtg caaggggact ggagagagca tcaatgagaa tgaccgctgt 300

ccagggtgca aggggtgagaa ggtcattcaa gagaagaagg ttcttgaggt tcatgttgag 360

aaggggatgc atcacaacca gacgatcacc ttccctgggtg aagctgatga aacgcctgat 420

actgtcactg gaaacattgt att 443

<210> 53598

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G2

<400> 53598

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<210> 53599

<211> 421

<212> DNA

<213> Zea mays

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<400> 53599

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gtgataggca actcgctgcg caatttcagg aaatccctct ggatcttagg atgatcgggg 180
cagaaaaggc tggatttgag atcctgaaat ctacgatggg agagaagctc cccaatgatc 240
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acgtcgatga tgttgtggaa ggacgcgtgg cacctgataa cagaatcgga aggttgggtct 360
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<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-G4

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ttctgtacgt atatggggat tcagaatgag aaagagtgtg gcaaattaat ataattaggt 180
gctgcagttt ttctctatgc aatgctatta tgaacttcct tttgtattta gcacaatcct 240
gaacttcact ggtagcattt aacattatta tttaatctaa aacagagcaa caaggtgctc 300
tgtatttaag agtgggtattt gtagtgagtg aaatgatgat ttggaaatta tcatattagt 360
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<210> 53601
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D3

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ttttagaaaa attgaggcac ttcgagggtg agattattag ttatcacctt gcttgtcctg 180

tatccagctt taagtgcctc agaacatgaa gcttacccaa aggtcttcat aatgattagg 240
aagtcagtca aggctggatg tttgttcgaa tattggatag ggattcagag aggtttactc 300
ccttcaagtt agaaaaacaa agaatggatg gtttttgtgg ttttttggg tcagtctagg 360
ataaagtatt tatgatcctt ctttaattgt ttcagtttagc agattgtaac attgagaaca 420
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<210> 53602
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D4

<400> 53602

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gcggagaagc ggctcccggc gggaaaatcc gccggcaagg aaggcgggtg tgacaagaag 180
gggcggaaga aggccaagaa gagcgtggag acgtacaaga tctacatctt caaggtgctg 240
aagcaggtgc acccgacat cggcatctcc tccaaggcca tgtccatcat gaactccttc 300
atcaacgaca tcttcgagaa gctcgccggc gaagcggcca aagctcgccg ctacaacaag 360
aagcccacca 370

<210> 53603
<211> 302
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D9

<400> 53603

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gaagtcctt tctagtttct acattgaaat tatcatatta atcagctgga gcatttgggt 120
ctcaaggagt gagctggaac atcttccaag aaattctacc gtctgtatca aatggctaag 180
cctttttcaa gaaagagttt gccaggtta tccatagagc atagaagaaa tatttccttg 240
aagaatgact agagcgtcag ttgtggctt ttttaatatc ttttgtgtcc ttttttgtt 300

<210> 53604
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E10

<400> 53604

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 tcttcaactc ccacgcctcc gccatacatg cgcagatacc tgcctcggca actaccgacg 180
 ccgccgtggc cgtcacaaac ccgcattccag gaagcaactgg cactgtctgc tgtatattgg 240
 gcgccagcgg tccggactct cgtctggaac tctacatgca cgacatcctg tgccggtcga 300
 gcctgacagc tcattccatc accggtttgc tgggcatcat ctaccacggg catgtccatt 360
 tcgcgcggcc ca 372

<210> 53605
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E11

<400> 53605

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 gctgcatgtg aagtactccc gctagacctt catatttact ggcgacaca cagtccatga 180
 tctagctatc tccgacaatt tgctggactc aaccgatact gtgtgcacct gaaatctggc 240
 gtacaagatt atgtgataga ggatgcatca tgaccaagac agacatgtga catatactac 300
 accgctaact acacagagca actaatggtc aaaactcata tgcgcatcac tggactggac 360
 acagaataaa gctcagagtc attgttcaat actaatgctg atggcagcac agcatgtgc 419

<210> 53606
 <211> 433

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-E2

 <400> 53606

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 atctgatgat atcattgaga caatcctgga taagacattc tctgatgctg atgcaaata 180
 ggatgggaaa atagatagaa cagagtggga gaattttgtc acaagaaatc cttccttgat 240
 gaagataatg actctgccat acctcaagga catcacaaca acattcccca gctttgtggt 300
 taactctgaa gtcgatgatc tcgtcacgtg accacgattt tctcttcgat gtatagctaa 360
 caaggagaac ctgtcgaggg ttacgactgg agatttctag cctctggcat tatgaatgcg 420
 aggtatattc atg 433

<210> 53607
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-E3

 <400> 53607

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 aggtcggaat cctgcgggag gaactggctg gaccgctggg tggaggagag gtacatggac 180
 gacgagaaga acgccaagat tctcgagggt gacaacggca agccacggcg ccggtatgct 240
 tccaagaggc gcggcggcgg cggcggaaac caccaccacc accaccagtc gccgtgctcg 300
 acgacgatgg gttccgagca gaacagccgg agctacgca ccatggcgga gtcgccgtcc 360
 aaggactcga cgaccgcga gcagtcggtg ccgagcccgg cgtctgtggg catg 414

<210> 53608
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-E4

<400> 53608

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tcagcttata tatattcctc tgcccgatga gcagtccagg cttcagatct tcaaagcctg 180
tctcaggaag tctcctgtgg ccaaggatgt tgacttgaat gctctcgcca aatacaccca 240
gggttttcagc ggtgcagata tcacagagat ctgccagcgc gcgtgcaagt atgccatcag 300
ggagaacatc gagaaggata tcgagagggg gagggcgcagc aaagacaacc ccgaagctat 360
ggaagaagac gaagtagacg aca 383

<210> 53609

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E5

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ggggaacaca agctactaca gatccagact ctttttctca ggcgatgagc aagctccgtc 120
agcggtatga tgaactgaaa gagcgctatg gggtttctga tattactgtt tcagtacaaa 180
atgtggcttc tcagcggggg tacagtagca ttgacttggg gacgcttgag gacatgggcc 240
ttgaaatcgt gaggcaaata gagaagctga tccgtgcaaa ggagatgatg gaagctgcag 300
ggaagccatt ctaaacaaga tacacataca caatagttct gctccggcat acctattttc 360
tggccagtta ccagaccttc gatgcttcgc tgttcaagaa accgattgca gttgcctacg 420
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<210> 53610

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E6

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ggataatcta ggacatggac gccatggagg tggagaagct gatcttgtag atgctcaaga 120
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 tctacgtcgg cgcgctgggc ttccacgcgc tcttggtcac gggcgtctac tggctcggtt 240
 gcgcgggtccc ggacacgcgg cgcttacagc gtcgtctgcc gtgctgctca cagctcaatc 300
 cccatgggtca tgcgcctcaa ggaggacagg gcaaacggca tgcgtcaagc gcagtaagga 360
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<210> 53611

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E8

<400> 53611

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 ggtcacgcct ctactgtccg ccgcgatgct cccctggcc agaaggctcg tctcattgct 180
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 gccacctaga gtattgttgt tcttggttta tctatccctc tgctgtgatt tattagatgg 300
 ttaaaaagga cgtgttcgcg tatggatggg actatggtga aacattgtgt cagtttttgt 360
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<210> 53612

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-036-Q1-K1-E9

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ttgtggcact ctcccatttg acgatgagaa tattccaaac cttttcaaga aaataaaggg 240
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 gctggttggt gatccaatga aaaggattac aatacgtgaa atccgtgaac atgtgtggtt 360
 caagatccga cttccgcgct atttggctgt gccgtcttca gacactgctc aacatgttaa 420
 aaagggtcgac gaggaaactc ttaatgatnn gtataagatg 460

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 <211> 288
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F1

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 gccgagcatg atttctcata tgatgatgcc acaattgtca ctgctacttc ttctttcaga 180
 ttattcttca acagcagtta ctattcattt tcaacccaat tgccatgatt atttcacca 240
 tgtttttaca gaaacccttt gtttgtgctt cattcttgat ataaatat 288

<210> 53614
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-D12

<400> 53614
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 ctgctgctcc cattagaaat ataatatcgt atgttatgtt gatgcatata tatgcatcat 240
 ccatctacct gtgtggtgca aaattctgaa taaaatctac ctgtgtggtg caaaaaagaa 300
 ataaggtgat attaatctac aaaaaagcaa aatatccaag atatgaacaa tcgcgcatat 360
 aaaaaacaaa aatggggccc cct 383

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 <211> 442
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 <223> unsure at all n locations
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 <400> 53615

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ggtggcgact ctgtcgtgc tgtcgagaag gctgggctgg ccgacaagat gagccacatt  180
tcgaccggcg gcggtgcgag cttggaactc ttggaaggca agactctacc tgggtgtcctt  240
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tgtcatcttg tttcggacct tgggtgtagca ctgcaaggct aagggttact cctncacaca  360
tggactttcg aggataggct tgccaccgtg ttttgctaga tgagtcgtga aataagcttt  420
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<210> 53616
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B6

 <400> 53616

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attgccgacc accgccgcac cttgaagacc gccgtgctgt tcgtcgtggg gggccgtctc  180
aggcaacgac gagtacgccg gtcgcggcct caaagacctc ccgccaccgc tatgacttga  240
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gtcctcgaa cctcaagagg agggcatgac actacgaaaa tcattgattg tcttcaggac  360
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 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B8

 <400> 53617

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 cccctcgtat aaattgccga ccaccgtctc accttaaaga ccgccttgct gttcgtcaaa 180
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<210> 53618
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-036-Q1-K1-C12

 <400> 53618

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 ccgacggcac gtcgacgctt ctgcgggggtt ggcgggagtt catgcggagc ggcgcgccgg 180
 cgaggttcct ctgttatgag gacggcaagt ggatcggtat caccggagag gcggtgccgc 240
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 ggaagcgc 428

<210> 53619
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C2

<400> 53619

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acctgtttgc ttaaatctgt ttgcttgtca acccaatttg tgggtgttaa aaaccttagt 180
ttgtgtcctg ccccccttgg ataatgtttg ggtgtttcct tccatcataa ttgcttgaca 240
cggctatagt attcgcatth gaaataaaaa tctctctctt aaaactctct aggttctaaa 300
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<210> 53620

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C4

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cacaacatga ttatggaggc cattgagtac aaagttgtct tgaagagata tgctgaggaa 240
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<210> 53621

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C9

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atcaataatt cattttttca aagataaaaa caattacata acatatgggc aaagattgtc 300
ataatatgtt caaacatgaa ccatgcaata tatacatcca tactttacaa ctgtagtatt 360
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<211> 511
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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ggagggagcc caccatttcg taatcgaagg gcctgacgcc ggagccgtcc aagaacctac 180
ctcgagcat gggctgtgca cagtctcgta atgaaccggg gcttcatcgt cattcaatga 240
actcgctccc tgcaaggggt tgtggagggt ttctactctc aaagacctgg taagcattgg 300
ccatgccaaa tgccactttt gttggccata gacatanttc aactgggaaa aaagctcgaa 360
gatattggtt ccttcgtcac actaactgtg atattnccgc atgtgaactc gtactgagta 420
ccagctgatt gatatatcag aggatggatt tgtgagcctt cttacttcag atggcaacac 480
taaggatgat cttagacttc caactgatga g 511

<210> 53623
<211> 453
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-036-Q1-K1-D10
<400> 53623

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 gctactggat ttgcagtcaa tgctactggg atggccaacc aactacaact aggaaatagg 120
 ttgccctggg caaactattc aactaaacta atcgggactc accactagtc ggctagtgtg 180
 tgctcagggt actagacttg atttatgatt tggaaacact agtagctgct tatcttttat 240
 ttacgctagt tatectcaaa agaccaccaa atgttattat acacattcgt agcaatcgta 300
 taagggtata ttatgctaca gtgaacgatg tgccaaaaaa tggataagcg tgttcattta 360
 aattctaaga gagccatttt atgtccttgc tggatacaac aacattttga tttactgtct 420
 ngcatncgaa ggggtgcattc caagcctata tct 453

<210> 53624
 <211> 433
 <212> DNA
 <213> Zea mays '

<223> Clone ID: LIB3079-036-Q1-K1-B3

<400> 53624

cccacgcgtc cggccacgcg tccgggatac agttaatgta agcgcctggag atgttgcttg 60
 tgtcgggtat ttgtggaacc cttgggcaat agtcacttgt gtgggatcat gtacatcacc 120
 aatcgagaat ctaatgggtg taataatgat ctacggatcc tgttcacgtc tggctcctct 180
 tgctgctttt ggatatgtta tggccacaca cctctctctt tatectgcaa ttctcatagt 240
 accggtcatt ctgttgctgg gttatggtct agatgctcct cctccaaaag tatttggtat 300
 aaaagggtca attgccagaa aaagtgatgt gtcagacaat gataaaacaa gcagacagag 360
 agttgttcag cagttttcat ggaaaccagt acttcacttt atattttggc tgctcaatct 420
 gtcgtgccat gtg 433

<210> 53625
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H3

<400> 53625

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cgagatgggc cgcaagttct tcgttggtgg caactggaaa tgcaatggaa ccacagatca 120
 ggttgagaag attgtcaaaa ccctgaatga aggaaatggt ccctcttcag atgttggtga 180
 ggtcgttgtc agtcctcctt atgtgttcct cccggtgggc aagagccagc tgcgccaaga 240
 gttccaagtt gctgctcaga actgctgggt gaagaaggga ggtgcattca ccggtgaaat 300
 tagtgctgag atgctcgtca accttggcgt tccctgtgtc attcttggac actctgaaag 360
 gagagctctg ctgggagaat caaatgagtt tgttggatac atgggtgctt ttgctctgtc 420
 ttatggacta aaagtcattg catgtgttgg t 451

<210> 53626
 <211> 240
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H6

<400> 53626

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 aggtggagtc ctcagacacc attgacaatg tcaaggcaaa gatccaggac aaggagggca 120
 tcccacctga ccagcaacgt ctcacttttg ccggcaagca gttggaggat gggaggaccc 180
 ttgctgcata ccaccctaa gacgcagtac caagtggatg gtgctctcct tctagatgtt 240

<210> 53627
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H8

<400> 53627

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 aacctttgga cttttagtaa actacacagt aactttcacc tattgagttc tgacgttggg 120
 tacacatgct caacaaatct gcaagaatca caggccttga tcccgaacta ctttacgcgc 180
 cagagaaaga aaaagaaaga aaaaaaaaaag ggttcctagt agtgttaccc tatgacgagg 240
 agct 244

<210> 53628

<211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A1

 <400> 53628

 cccacgcgtc cgccacgcg tccgaaaaaa ttaaaataaa aaaaaaaaaa aaaaaaaaaa 60
 gggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa ataaaaaaaa ttaaaaacac aaaaaaaaaa aaaaaaaaaa ataataaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tatacactaa cataaaatta 240
 taataat 247

<210> 53629
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A10

 <400> 53629

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 gcagtacatc ctccgggctg gcgccatcaa ggccctcggc tccttcagga gcaacgcgtg 120
 atgagcgggg cttggctgtg gagcaatggc gggcgaccta cgggcggggg gccgtgagcg 180
 aggagaatgc catcattcat cgatcgactt ggggtgccggg ggttggttcg ggtcgccttt 240
 tttttgtttc agcagctgct gcgttgcgcg cgtgcgtgag atttggtttg gtttcgttcc 300
 cctgcaatgt aatcatgtcg tgactctcaa gggattattc cgctctgctc ttatgggtctc 360
 tgttttctat ttaatgattg ttattaccat gtagcagtaa ccatcgtcac cagtgagaac 420
 cttgttgctt ctgtctaaa 439

<210> 53630
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-A11

 <400> 53630

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 ttgttagtgt ccactgtgaa caaacatcga ccatccattt gcacagaaca gtcaatcagg 120
 taatatctgt accaccttat atttacaagt taatgctcag ataatagtat ggaacttcaa 180
 tgtatttggg tataaatacc aacgaatgtg gcttttacct tcttgcttgg tgttgtacaa 240
 cacaaatggc ttcaacgaat attttgetta aacccttcac tgtatttttt tcattcagga 300
 tttagcta at catggactat tacgtaatga atgtttttct ttgtgtgtgt gtgtgtgttt 360
 gtttgttttg tgaggctgaa ttattactaa ttactgggct ccaacaatag ctataggagc 420
 acatttgcta cttgctagtg ttaggcctac aac 453

<210> 53631

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A12

<400> 53631

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 gagatatttg cctccttcaa aggttcttga tgctgatgtg acagacagtg ttattggaga 120
 aggggtgtgtt attaaacatt gcacaatcaa tcattccgta gttggactcc gttcctgcat 180
 ttctgaaggt gcagttatag aggactcttt gctaattgggt gcagactatt acgagactga 240
 gaatgataag aatgtccttt ctgagactgg tggcattccc attggtattg ggaaaaattc 300
 acatatcaga aaagcaatca ttgacaaaaa tgctcgcat ggagaaaatg tgaagataat 360
 caattttgat aatgtccaag aagcagtaag ggagacagaa ggatatttta tcaaaagtgg 420
 aattgtcacg gtgattaaag atgctttaat tcctagtgga 460

<210> 53632

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A2

<400> 53632

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cgctgaatc ctctccaact ccggcaccgc attcgcacgc ccgcgaagcc ccgaatcgga 120
gaggacagag gaggcatgga cgcggcggcg gcggcggctg cggctgcgag cccacgagc 180
aagaggatcg cgctggtagc gggaggggaa aagggcatcg ggctcgagac gtgccggcag 240
ctggcggtcca ggggcgtcag ggctgctctg acggcgagga acgaggcgag gggtttggaa 300
gcggtcgagc gcgtcaggtag cgcgcggcgc gacgccgagg tttacttcca ccagctcgac 360
gtcaccgacc ccttgtagcg ccgcgggctc gcggtattcg tcagggatca attcggtagg 420
ctggacatcc tgatcaacaa tg 442

<210> 53633

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A5

<400> 53633

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aaagagctgt ttagcatct gttgcacgtg ccaatcgtgg aaaaattgat gcagctttgg 120
aagatctttc tgtcgaatca gcagtggatc tgcagaaagt tcttaaaaca agtacattta 180
cttcaaggaa ggatgcattc aacacccttt tggctaacat tcctttgttt caaagtcgac 240
tgaggagccat gctatttctt atttctgctt tgctttcacg aggattggaa gacatccaag 300
cagacagggg tgatccaagc cagccattgg tcaactgctcc atttggatcat gcttcacagg 360
aaattgtgaa tttattactc tgtggagagg ctgttccaaa tgtatttgat ggcaagatgg 420
accttgggtgg tggcatg 437

<210> 53634

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A9

<400> 53634

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gatcgtgtgt ggtgactgtg gtcgccgtat acctgacgta aaaaaacagc agtccacatt 120

cggggggtcg tcgacacttg caccacgcac tcatcgctgc acccttgaga acacgagaca 180
catctaattg tcatcgctgc ttgacagagt agtacaatag ttaccatcgt gtcttgctcg 240
ttaatgtgat atgatccaat tttgggttgg gtgatctaata ggtcatgggt ttttttttgt 300

<210> 53635

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-B10

<400> 53635

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gtcgacacca tggccgctgc gcgccggggc cgtggcgact gcgccaacgg cgtcgtccgt 120
ccccgcccc gcgaccgagg catcggcggc gggagcatgg cggggcgagt ggccgtcctc 180
gccttctgtg tcgcagggat ctggtccgcc tacatctacc agggcgctct ccaggagact 240
ctatcgacga agcgggttcgg gccggatgag cggcgggttc agcacctcgc gttcctcaac 300
ttcgcgaga acgtcatctg cttcgtctgg tccttcataa tgattaagct gtggtcgggc 360
gggagtagct ccaatggcag cgcaccgata tggaagtact ggggcgtcag cgtcaccaat 420
accatcgggc cgaccatggg gatcgaggct ctcaagtaca 460

<210> 53636

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-B2

<400> 53636

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cattaggaga acttgtgaaa ggtaataaaa acaagtccac cactgagtta tgggtagaga 120
aattctataa gaaggtaacc aatctaccgg agccttttcc ccatgatctt gttgagaagt 180
tagaagaata cctggataaa cttgaagggc aactcgtgga cttgtcttcc ttattgtatg 240
accaccggct ggtcgatgca tatcaaaaca gtaccgatat cctgcaaagc actattttta 300
cacaacagta tgtggaacgt gttctagcta acgagagaga caagatgaaa tgctgtagca 360

ttgaatatag tcatccaaag cagtcatccc aggcttttgt ctatggaagg atccttcttg 420
ctggatttct tgtgtattca ctggttattt 450

<210> 53637
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H2

<400> 53637

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aggtggagtc ctgagacacc attgacaatg tcaaggcaaa gatccaggac aaggagggca 120
tcccacctga ccagcaacgt ctcatctttg ccggcaagca gttggaggat gggaggaccc 180
ttgctgcata ccaccctaa gacgcagtag caagtggatg gtgctctcct tctagatgtt 240

<210> 53638
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G1

<400> 53638

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gatgtgcaaa agctcacata ttctcttcta ttgatacaca tgttgatgat ttgctatcta 120
ggtactcagt gcccacgta tttgacgtat gtctgtaaat aagtggcaca ttcgagcgct 180
cttcgctctg ccattgaggt ggatcgaagc tgccacatat tttctccgca ggacatcggc 240
acgaattttg tcttagcaaa ccagttaatt ttgtactctt tagattcttt aattggttcc 300
atgctctctt tgggtacttt catgtcagtt tgctttgcaa acattatcag cgtgcccttg 360
tagatttcgt aatgggtata tgtatatgcc ctattgaaat tgtcaaaaat aaaaa 415

<210> 53639
<211> 462
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-035-Q1-K1-G10

<400> 53639

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atcttcacag atcaacaagt gaggcgtctt tgcattgctgc atgagatcaa gcaagccgcc 120
gactggcaat gctccacctg ccattcagtt cgttgggtgag gtattaatca ccagccatgt 180
tggcaacttg cggcattgcag atggagcaga acatccaggt gaagcggaca gatacatgat 240
cgatcatgag ttggcgcaga cacaggccat acaaccagag gctatatcc aattcataca 300
ttccatgata agcaaaggaa gatccatgac aacacatata taaaatagt tagttataca 360
agcaaaaatc ctgttgtttt gtgcctccca ttttctagtc cagaattaat atgacaattn 420
ttcactgaaa ctggttggat cagagaccag gaaaaaaagg ga 462

<210> 53640

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-G3

<400> 53640

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cccgacccga tggcgcccaa ggccgagaag aagccagcgg agaagaagcc ggcgcccgag 120
gagaaggcgg agaagacgac cgcaggttaag aagcccaagt ccgagaagcg cctgccggcc 180
tcgaagtcct ccggcaagga gggcggcgag aagaagggga agaagaaggc caagaagagc 240
gtggagacct aaaaaatcta catcttcaag gtcctgaagc aggtgcaccc cgacatcggc 300
atctcctcca aggccatgtc catcatgaac tccttcatca acgacatatt cgagaagctc 360
gccggcgagg ccgccaagct cgcgcggtac aacaagaagc ccaccatcac cttccgcgag 420
atccagacct ncgtgcg 437

<210> 53641

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G4

<400> 53641

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gcccgtcccg tggcgcaacg accgccgcct tccggccacc cggtcgcggc tcccccgat 120
tcgcgccac cgcgcctccg gatcgtctcg gagatctgcc gctgaggag ttgcatataa 180
tctgagctgg tgctcctcaa gtgttcggaa gaggtccctg ttttattcgt ttttgttggt 240
gcgattgcga gtgtaatgga ggaagtggag gaagcgaaca ggaagccgt ggagagctgc 300
cacaggggtgc tcgccttgc ctcccagccg catgaccccg cgcaggccag gagcatagct 360
ctgggcacgg acgaagcatg tgccaggttc aggaaggtgg tctctctact 410

<210> 53642

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G5

<400> 53642

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gcattgcgaa gcgttagccg gagcccagct aggatttcaa ggagcccact taggccttct 120
aggagaagcc ctatgagaag tccacgacgg aacattcaca gaagtctcag caggagccct 180
gcaagaatac ttagaagtgt gagcagaagt ccagtaagag gtggtcgacc tcgccggaac 240
attagcagaa gtcccagtc acttcgcagg gcattaacac caccaaaca tggaaggagc 300
cgatctagga gtgattctcc tgatgggtca cccaaacgca taagacgtgg acgtggtttt 360
actcaacgct attcatttgc aagacaatat cgctcacctt ccgctgatcg cttgcatcgc 420
tatggcgga gaaatgaccg tgacagatac atgggttacc g 461

<210> 53643

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-035-Q1-K1-G6

<400> 53643

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gcaactccac cgcaaggtcc cattgcattg acaccaccaa atatgccac catgtaccgc 120
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ggtggtgggg ctcaagtcttt tcctacagct ggcctcaag gcccttcctc agtagcattt 240
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ccttcagctt tctctccagt tggatcaact cctggcatgg tgctccacc tattgcatct 360
tccggcctgc ctgccccgcg tactgcaac actagctgca tccagacaca agtagtagcc 420
cctttgagac ctncgntccc agccgcgggc gaatttactt 460

<210> 53644
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G7

<400> 53644

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tgtacaacta ctacaagcac cagggtcgag gaatgttga ggccgtagc ttcaggcaga 120
cggacatgca cccgaccgac tgagaagaca aagaggaccg ccgcaacgtc tggctttccg 180
gcacatgcgc tggttcagcaa cccggaagat ctacgaccgc ctcgaggaag acgccttacg 240
caccgtccta gaccaattcg acgaccatag ttacggcggt gagctgtact taccgatgac 300
catggcatgc tcaacaacca gtgcgactag gactaagact gttgccaatc tgaactgtcg 360
cagggtcaat ctaagctagt atgcac 386

<210> 53645
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G9

<400> 53645

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gctagcaggc acggaagaag ttcgactccg cttgatcctg cgggggaaga cgctcccgca 120
ccaagacgac agccatgtca ctctccgcga tggggatact cttatagtcg ccgtggcacc 180

taagcctcct gttaatcatc ttcttgatga tgacgttgag gacgaagaag aggatgaact 240
gaagttcaga ataccacaaa cgacaacctt gtggaagagg aaatttttta tgtttcttcg 300
agacaaattg agattgcctg atatcatttt gatggcgctg ttttctctca gtatgaaagc 360
atggattatc attgcaatgt ggttcctatt ggcaccgatt gctcagaagt acgacattgg 420
acctttatat ataattggta ctggtttctt gatcatac 458

<210> 53646
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H1

<400> 53646
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agggaataa aaaaaaaga aattagataa taaaaaatgg cggatgcttt ggaggctcag 120
gtcttgcttt cagcagcgtc caatgtctta ctttttgctt cgggcccttt aaatatattt 180
tagtggccgg tgttttaaac tgctgggcct gggtaaaccc gggctttacc cagcttaacc 240
gt 242

<210> 53647
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F8

<400> 53647
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ccttagctgt tgcagctatg tgtttgcagg agcaagcagc atcccggccg ctgataggag 180
acgttgtcac tgcactgtct tacctagctg cacatcctta tgatccaaat gcgccttcca 240
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gtgttcctga tgctcaacat gctgctgagt cgcttatttt gaacttccca gacatgagga 360
aggagactgt cagaggaggg gaattcgaga aggatcgtac tgaagggtct ggcagcagca 420

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450

<210> 53648

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E12

<400> 53648

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tactacttac atttacaacc tattaatcaa caatcattta ctcaaccaat tcatacacia 120
catccctacc aaaatcagtc ctattgcctt acaaactaga tctacctact attattccta 180
taccactgac ccaactactg ccaaattaac ctcttactct atctacaatc acttaactaa 240
cattactacc taaagcacca ataccttaca atatattcaa taacgacaaa ataatccctt 300
gactacctaa tatctatcca atcactacta cttattctat caattgctta attaacttgc 360
tgttgccatc 370

<210> 53649

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E2

<400> 53649

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ctcaccgctc ctgcacctcc tgtttcacgg ggctcaggtc cacagaaatg tccataaatt 120
cagagaagtg cagcaatgca cacttctttc aatcaagact ggtggatgca gtgaagattg 180
ttcttactgt cctcagtcac caagatacaa cactggattg aaggcccaaa aattgatgaa 240
caaatatgct gtcttgggaag cagcaaaaaa ggcaaaagag tctgggagca cccgtttttg 300
catgggagct gcatggagag aaaccattgg caggaaatca aacttcaacc agattcttga 360
atatgtcaag gaaataaggt gtatgggcat ggaagtctgt tgcacactac gcatgatgga 420
gaacaacaag ctgat 435

<210> 53650
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E3

<400> 53650

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tcggggccgt cctcggtcga gatcatactc tcttgctcca aggcggggga atgactactc 180
tgctctcca aggagacagg aagcccatcg ctcatctcct cccaggcgcc tgccaaagga 240
gcatgatgaa gataagaagc ggaggtccta ctctcctgcc agtagagatg atgctgacaa 300
tgtttatgag aagaggtcgc cccagcaga cagcgatgga tctcctctgc accgcaggtc 360
ccccaaggag tactcgggct caccttctgg atcccgctcc aggtccgccg acgattcctc 420
tgttgccagt gactgatcga ccgatggatg cta 453

<210> 53651
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-E4

<400> 53651

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taacaagggt atagcaccca aaattccatg ggacagacac aaatcagaat gtgactcagt 120
gtcagacgca agccaaaggc cagaggatca ggatgagtgt ggcatagttg acgcattggc 180
ggcagcaata acacgtgtta gaatatcaga gccaaagaga agtcgggtct gtagccccgc 240
aattaccatt cagcaggaat gctcgtcaaa cttgaagaat aatctttgca cggctttctg 300
acctgaccta gtttatagca cctgatcgga atggcgctca ttcttctcgc tgagaaggtc 360
gttctgattt aggtgttgta gaggcgagga taataactca gcttttccag ccagcaacaa 420
acgtctggta tttagtgttt ctttcagtgt tctgat 457

<210> 53652
<211> 189

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E5

 <400> 53652

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 tgctccaatg ctttctaatt tctacacttc ctctctaacg tgacacgact cccattgctc 180
 atctccttc 189

<210> 53653
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E7

 <400> 53653

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 tcgcggccgt cctccgctga catcactctc tgctgctcca aggcgggtgga ctgactactc 180
 tgctcttca aggagacagg aagccgatcg ctcatctact gccaggcgcc tgccaaagga 240
 gcatgatgaa gataagaagc ggaagtccta ctctcttgcc agtggagatg atgctgacac 300
 tgtgtacgag atgaggtcta cccagcaga 330

<210> 53654
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E8

 <400> 53654

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 tcatgaagct ggagtgtcaa atcagtatca agctgcttta acccagaatg tactgccagc 120
 aatcgctcag atttcacagc tagttgctgg gagccatcgt ccagttggca tcccaaata 180
 ggcccttgct gttccgctc aatatggtag tggtagtgca aattattatg gagtgacgct 240

caccaggcca tacaggccca tcaactctacc tgctggacct ggtgctttga atgggtccaag 300
 tgcgcaggca tcttcaagat caaggtcteta ttctggagat ccccttgagg ctgtctcccg 360
 atcatcagat tagaagggat cgtcttataa gtattctttg accaatatgt caacttatga 420
 tc 422

<210> 53655
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-F1
 <400> 53655

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 accagttgga gctcatcacg tcccaccgtc tgatgggatg cagccactat ttgtagcccc 180
 tgctcctatt tctgctgcag ccataccttt cagcceaact gttcccttgc aaaatacatc 240
 agctgcttgg atacaagaag ttactccaag gcctgctacg acacgattcc ctgggtcctgg 300
 tacgggggtc ttacttgctc cgggatcagg ccaccctctg cctcatcaga tgatgccggc 360
 ttctcatggc catggcgaac ccaactatcc acaagggtca tccgcttacc tgcatagtaa 420
 cgtcaatggc acagagacat ctaatggcaa tctttc 456

<210> 53656
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-F10
 <400> 53656

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 gggagggtcc gacggccgag gagctgaaga cagcgggggc ggagggtgatt cccggcgggc 120
 tgcgagtga ggggtgggtc atccagtccc acaaaggccc tctcctcaac gccgcctctc 180
 tgcaacgctt tgaagatgaa cttcaaaca cacatttacc tgagatggtt tttggagaga 240
 gtttcttgct acttcaacat acacaaactg gcatcaaatt tcattttaat gcgcttgatg 300

cactcaaggc atggaagaaa gaggcactgc cacctgttga ggttcctgct gcagcaaaat 360
 ggaagttcag aaggatcatct ataactgtaa ttcatttttag tactcaattc agtactaccg 420
 agcattttgta gtgaaagatg ttaggttagt ttggcatc 458

<210> 53657
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-F3
 <400> 53657

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 gaggaaaaaa taataaataa aaaaaacaaa aaaataaata aaaataaaaa aaaaaataag 120
 gggcgcccggt tttatagggtt caaagtttac ttacccttgc ttacaccttc attgcttttt 180
 aatagagtcc cttaatttca attatctgcc cactttttta caacttcgtc tcttggaac 240
 cccttccttt cccaattaa ttgaccttct aacacttccc ttttagtcct ttttgctttt 300
 taccgaaaag gcccttccct atcttttttc caaacatttg cccat 345

<210> 53658
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-F4
 <400> 53658

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 ctgctgtcga ttcaagcttg gcataagcac gtgttcgaag acgtgcatgt acatacatat 120
 actgcttaaa aaacaaaaga agcattagat gtagctcgta acagcgtaga acttatatga 180
 actcgctttt cctcttctcc tgagcacgat tctttacaag atgacttgac aaccactctt 240
 gtgcaacaat gctagcaatc ttagcacact atccatatca ttattgagac cgatggagac 300
 aattgatctg agctctctga tgccttgagc gttaacgacg agatccacaa agtggttatc 359

<210> 53659
 <211> 406

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F5

 <400> 53659

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 acattgtctc caatgctagc tgcacaacca actgccttgc tcctcttgct aagggtcatca 120
 atgacaagtt cggatatcgtt gaggggtctga tgaccactgt ccatgccatc actgctaccc 180
 agaagactgt tgatgggccc tcatctaagg actggagggg tggaagggct gctagtttca 240
 acatcattcc cagcagcact ggagctgcta aggctgttgg caaagtgctt actgtcctta 300
 acggaaagtt gactggaatg tctttccgtg tcccaaccgt cgatgtttct gttgttgatt 360
 tgactgttaa gcttgaaaag tcagcaacct atgatgagat caaggc 406

<210> 53660
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-F6

 <400> 53660

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 tgaagctgat gttgatgcaa gcttgcccca gcaggtgttc gaggacgtcc atgttcatac 120
 atatactgct gaagaaacaa aagaagcatt tgatgtagct cgtaacagcg tagaacttct 180
 ttcaactgtt ctttcctctt ctccctgagca ggatgctttg caggatgact tgacaaccac 240
 tcttgtgcaa caatgctacc aatctcagca cactatccag atgattattg agaccgttgg 300
 agacaatgaa gctgtgctct ttgaggcctt gagcgtgaac gatgagatcc agaaagtatt 360
 atcgaagtac gaagagatga agcagcccat ggccttcgag catgcagaac atgtaccagt 420
 tgtcataccg attgctgcgg agcatgaaga tttgaatgct 460

<210> 53661
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-E11

<400> 53661

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tgccgatggc gtgttcacag attgacggat cctagatcta gattaagagc tgggtatgcc 120

tcttagctga tgtaagcact ctgatagac acttcatctt tactggcgcg gacactgtcc 180

gatgatctga gactttaccg aacaatttgc tggactcaac cgatactgtg tccacctgaa 240

atctggtgtc tatgatgact tgacagagca tgcataatga cacagacaga cagtgtctca 300

tatactacac cgctgactac acagatcaac taatgttcaa ccttcatata cgcatactg 360

gtctggac 368

<210> 53662

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-C5

<400> 53662

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ccagatgcaa ttctgccctc gattcgaccc cgattcgtcc gtccgcgacc gggattccgt 120

ccgtcaagcg cggatctgaa cgctgcgctc cgtgtcgccg ctgcaatccg ccatgaaggg 180

ggccaaatcc aagggcgccg ccaaggccga tgccaagctg gcggtgaaga gcaagggggc 240

ggagaagccc gccaaaggca ggaaaggga ggccggcaag gacccaaca agcctaagag 300

ggctcccagc gttttcttcg tggtcatgga ggaatttcgc aaggagttca aggagaagaa 360

ccctaagaac aagtctgtcg ctgcggtggg gaaagctgct ggcgacaggt ggaaatccct 420

gagcgagtcg gacaatgctc cctatgtag 449

<210> 53663

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-D8

<400> 53663

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catcagcttc cagctgcagt ggttccagca ggtcacctcc gccgtgtgcg ggcaggactg 120
caagagctac ctggccaact cgctgttcgt gttcggcgag ttcgggggca acgactacaa 180
cgccatgctg ttcggcaact acaacgcgga ccaggccagc acgtacacgc cgcagatcgt 240
gagcgccatc gcggccggcg tggagaagct gctggccatg ggcgccacgg acgtggtggt 300
gccgggggtg ctccccatcg gctgcttccc catctacctc accgtctacg gcacctgcaa 360
cagcgccgac tacgacgcgc tcggctgcct caagaagttc aacgacctct ccaccaacca 420
caac 424

<210> 53664
<211> 75
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E10

<400> 53664

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acctaatttc aatta 75

<210> 53665
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-E8

<400> 53665

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aagccggtag cggcagggca agtggttgcc atctaaccac accctcccat gactagcaaa 120
gtatgttaca cttttcccat catcaacata catgtgggaa tctatactat aggtggtaca 180
tggcacttgc ctgaagccaa tggctgtaga ccatggagtt ttatcctttg tttttttcaa 240
tcttagattt gggatttaaa atttaaaaa 269

<210> 53666
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-001-Q1-K1-H1

<400> 53666

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cgccgctgcc ggagctgcc agccattgat ttggcttcct gcctgctctg tctgtcaat 120
tactagtagc tgtgtcata agttataaaa tcaaaatcgc cagttcagtt ttagcagctc 180
cgttttccga tttttttctc ttctgtcgtt cgcgttagca gctttgtgaa aggattagga 240
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<210> 53667

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-001-Q1-K1-H7

<400> 53667

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gcgaaaagca gatccgtctc ccccgagccc cgaccggcga tcgctatcga cttgtagcgg 120
aagccatggc gtcggcagcg ctaatctgcg gcacggagca gtggaaggcc ctccaggcgc 180
acgtcggcgc gattcagaag acgcacctgc gcgacctgat ggccgacgcc gaccgatgca 240
aggcaatgac ggctgagtat gaagggatct ttctggatta ctcgagacag caggcgactg 300
gtgaaaccct ggagaagctc cttaaagggt ctgacgctgc gaagctcaag gagaangatg 360
agaagatggt taaaggtgaa a 381

<210> 53668

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-B10

<400> 53668

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<210> 53669

<211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-C11

 <400> 53669

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 ctgcgcgcg tccctgctcg cgcggcgctg ggcggcgggc gcggcccgt gctgggcggg 180
 tggaaccgca tccctgacgt gagcgactcg cacatccagg agctaggcgg gtgggcgctg 240
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 ggcgagcagc angtcgtgtc cgggatgaac taccgntctt acgtcgacgc cgcgcacccc 360
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 ca 422

<210> 53670
 <211> 187
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-002-Q1-K1-C6

 <400> 53670

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 accgtggcaa gattgaggct gaattgagca acatttgtga tggatccta aagctgcttg 180
 acacgca 187

<210> 53671
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-002-Q1-K1-D9

 <400> 53671

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cttgattgct attattgaga atttttgcat tgatgatgca aaagaaataa agaaaatcga 180
gaaagtaacc aaccatgatg tgaaagccgt cgagtacttt ctgaagcaaa ggtgcagctc 240
caatccagag attgctaagg tgctggagtt cttccatttt ggctgtacct cttaagatat 300
caacaatttg tcacatgcat tggctctcaa agagggggta aatagagtta tgttccttgc 360
catgattgac atatgcacag cattatgttc cttggcgaca cataattcag gctaccctat 420
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<210> 53672

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F10

<400> 53672

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gcggggctgc agggcttgta cggcgctggc gccggcctga cgacgatgat gggcgccggc 180
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ccctactacg ccgggtgtgg gcagccgagc gccatgttcc agccgctccg gcaacagtgc 300
tgccagcagc agatgaggat gatggacgtg cagtccgtcg cgcagcagct gcagatgatg 360
atg 363

<210> 53673

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-F4

<400> 53673

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tcagcttgaa gccctcgttg gaaggcatag caggaaaccc tggttaaagt ttatgaacgc 120

agataaccag cacctagtgt ctctgagggc catagatttc cttgacaagc ttttgcgta 180
 tgatcatcag gagaggctta ctgcacttga agctatgacg cacccgact tccaacaagt 240
 gagagccgct gagaacagca ggacgagcgt gtgacaggca aagagcgaag accatctgct 300
 cttttatcag tcagtcagggt tgtatgagat gagtagccgt tgggtcactt ggcagaaaat 360
 aaacaatagc ggtagagcct gtactgtacg taacgtaacc tcctcgagga gttgtgaggt 420
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<210> 53674

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-002-Q1-K1-H7

<400> 53674

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 gattgctcag cacgagagac ggccatgtga ctacatcgac gcccaactcg agatcaactc 180
 taagatgagg gctatcctgg ctgattggat aatcgaagta caccacaagt ttgaactgat 240
 gcccgaact ctctacctga ccatgtacat catcgatcag tacctctcgc tgcaaccagt 300
 cctgcgtaag gagctgcagc ttgtcggcgt ttcatctatg ctgatcgctt gcaagtacga 360
 ggagatttgg gcccagagg tgaacgactt catcctcata tcagacagtg catacagtag 420
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<210> 53675

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-A2

<400> 53675

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 cactgattgt cggtgcgctg actgatggga atcaggaaca gaagaagatg tggagattga 120
 tgatgagaag aaatctgaga ctgctatgac aaatgaatga gcgttatggg cttggaatga 180

taggatggcg gatcagattc ttttgctggt gagcaatgcc actcaagcag gggcgccgta 240
caattttaac agcgctgctt tgctattgag gagtctggtt gttactgcat actcgggcac 300
gcacgctctt ttatcatctc acctcatcac catcatccca catggaccaa tgctgctctgg 360
cggctcctga ttttggctctc ttcgaaactgt aatatctgca gtgaggtttt tccatcagtt 420
ttt 423

<210> 53676
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B5

<400> 53676

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tgtcatagat ggcttggacc ctcttattat cctgggagcc tcggtgggtt ggaagcatag 120
aaacagagtg gtgttcggta gagtttcttc caacctcact cttattctgg agtctgctaa 180
tgaggaaagc gagaaatgac aagttgcatg agccaagggt taccctttct ggctgctcca 240
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gccttcgtaa gaagtgcag tatcccgggc gtctttcagc tctttgtatt ctctgctctt 360
taatatagtg gggcgagtt ctctgtgct tttcgagaaa taaaataaaa agggcggtcg 420
ttct 424

<210> 53677
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B6

<400> 53677

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aaaaaaaaa aaacaaaaaa aaagaaagga tattataaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaggacaa ccaatctaaa aaaccaacc ttaccctctc ttactttccc 180
aatcctaatt ccccttattt tccccctaa attcattcca ttgcccctcc ttatatatat 240

tcttaacttg aaaatcccct cctttacctc tcttaatacc tttccctcac ttactttttt 300
 cccaggttag cacattccct t 321

<210> 53678
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-B7

<400> 53678

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 ttcttggtgg acttccactc acatctacat gttgaaaacc attatgggac tcttcacgtg 180
 tagactcgtg tagagactct tggacatcca tattgacaac gatcattaaa ttaaccactt 240
 ctggagcaaa aaaaaaaaaa aaataaaaaa aaaaaaaatg aaaaaaaaaa aaaaaaaat 300
 aaaaaagggc tggccattag ggccggccct ttataggatc caagtttatg tacccttgca 360
 tgccaccta aaggtctcct aaattgaaac ctaaggccaa tttt 404

<210> 53679
 <211> 72
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D10

<400> 53679

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 aacttctttt tt 72

<210> 53680
 <211> 156
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-003-Q1-K1-D5

<400> 53680

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aaaaaaaaa aaaaaaaaaa aaagaagata taataaaaaa aaataaaaaa cacataaata 120
aaacaaaaat aaataatatt taaaattaca taaaat 156

<210> 53681
<211> 372
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-003-Q1-K1-E2
<400> 53681

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aaccacgcat gagttcacca taaggtaggc aaagacaaaa cacagtaata cttcttgata 180
ttggtttatg cagttcacat tccatttcac cttctactgg gaaggaatgg gctgcatctc 240
tggtgctgca gcaacgtcag ccacggggta cctgaacacg cgggagagcc gctcagtggg 300
caccagcggg agataggtgg ccacggcggt cccgcgcttg gcaccatcac gcaccgncga 360
attgtacctg gc 372

<210> 53682
<211> 466
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-003-Q1-K1-E3
<400> 53682

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gtatttctgg atatgttagt ggtggtcttt actcaaggag cggtggcaaa aactggatta 120
aagcgatggt tcttacagca tccctctttc cgttcttggt tttttcaatt ggtttcgcac 180
tgaatacaat tgctattttc taccgctcat tagcagcaat accatttggc acaatgggtg 240
tcatgtttgt actttgggct ttcatactct tccggttggt gcttttggga actgttggtg 300
gtagaaactg gagtgggtgct cctaacaacc cctgccgagt aaagactatt ccacggccta 360
ttcctgagaa gaagtggtag cttacacctt ctgtcatctc attgatgggt ggctgctttt 420
cctttggcag tatcttcatt gagatgtact tcgtgttcac atcatt 466

<210> 53683
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-003-Q1-K1-F10

<400> 53683

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 ccacatagtg ctcatctcat agcaacgcat agacatacca tgcattgcaac atagctactt 180
 tggtaagacc aatactgaca tagcgccaca cggcgaacat acagacacgg cttacgcaca 240
 tcatgatgcc tcgagatata tccggttcat acatcatcac cttcatgtca gtgttccatc 300
 agtgaccgca cgcattggtg cgggcactac atactaagct cccattacat gcgtgctcc 359

<210> 53684
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-003-Q1-K1-H9

<400> 53684

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 aggaaactaa agaagacatc aaactattgc gcatccaaat tgaagatgat ctacaaaatg 180
 gagttgctgg ggctgttcca gttccacctg atgagggtgg caaagaagag gttatcaatt 240
 cattggttgc caatgttgaa tcaatgatta aagcagaccg gaagatcaca tcattgaaac 300
 aacttcaggg tcatatttgg aggattggat ttcaaaagaa agagctacag ggagttgtct 360
 ttgaggatgt tcctgtggcg ctaaagaact ggcatgctaa tggcataaaa gtctacatat 420
 a 421

<210> 53685
 <211> 83
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-B12
 <400> 53685
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 tgggcgcaac aactttttaaa aaa 83

<210> 53686
 <211> 233
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-B7
 <400> 53686
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 tatgtactgt acatactatc ttcttgcatt tgggtactctt gtttagtgaa aagcgttccg 180
 taaccttcgg ttgcctaaaa aaaaaaaaaa acaaaacaaa aaaaaaaaaa agt 233

<210> 53687
 <211> 67
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-004-Q1-K1-C10
 <400> 53687
 aaaaaaaaaa aaaataaaaa aaaaaatttt aaaaaaaaaa aaaaaaaaaa aatggaaagg 60
 aaaaaaat 67

<210> 53688
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-C4
 <400> 53688
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agctatctgt gattgggcga aacttgaaac ctcagttttg aaaaggggat gggacgtacc 120
 atagctgcag tgcgaattct cagtttctaa gtgagctgaa atggatgcct tggaagcctn 180
 gattacttcg tcaaagttaa aatgaaatct gatggcnttt ctgaagaaaa agggctttgc 240
 ctcattcatt cgtgtgttta tcagcgagcc tttgtcggct tgtttggagt tggatcccaa 300
 gctgttaatg gagcgattgg tcaactgccg tggctcattc cttgcttgct gtgaaagtct 360
 gcaaggcctt tgagattgga agacaattga ttttgtttga acctgaatga aggccttcgc 420
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<210> 53689

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C7

<400> 53689

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 tattcgtttc atatagatac agatgtacgt agtattatat atgagaacga agacgtgcac 180
 aggctccagc tagctatcaa gaatcaagga cgcggtagat gacgacgaag cagggcagga 240
 tggccctggg gttggccacg aagagctcct cgaggttccc gtacacgctg ctgctggcgg 300
 cgtcctcacc cgccaccgag tcgaacgggc ctctctgatc ctcggcggca gcggcggacg 360
 tg 362

<210> 53690

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-C8

<400> 53690

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 tgagaggggtc agggttgggt agcagcagca ggaccggctt gttcgccggc gactgcaaga 120
 ggaaggctcg tcgcccggcg tgctcggcct gggccctcag gcagagccgg atcggcagca 180

ggagcaggag caagaggggc ctccgcatcg tctgcaacct cgcgggacag tacgaggatt 240
 ccttcgacga cgtccagcgg caactgatga actacttcac ctacaaggcc gtgaggaccg 300
 tgctgacca gctctacgag ctgaaccgcg cgagctaccg ctggttctac aacttcgtcg 360
 ctgtcaacaa gcctaccgac ggcaagcatt tcctacgtgc tctcggcaag gagaggcaag 420
 agctcgaga gcgagtgatg gtcaccaggc t 451

<210> 53691
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-D6

<400> 53691

tgagtctgta ataatcagga catgattaat ttaggtaaag taatacatct atggccgtct 60
 tcctttcatt cagaaaaaaaa aaattaaaaa aaataatttt aatataatag taaaataaaa 120
 aaaataaaat aaacaaaaaa aaaaaaaaaag ggcgaccgtt ctaaaagatc caagcttaca 180
 taca 184

<210> 53692
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-004-Q1-K1-F11

<400> 53692

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 aagcgacacc atgaggagga aaggtcaaaa tccaaactct cctggctctc gcaacgagcg 120
 ccacctccac gcatacaagc ggcggtgctg gctgccagcc accgccgccc gttcatctac 180
 cgccgccggt gcatctgcca cctccggttc acctgccacc tccggtgcat ctcccaccgc 240
 cagtccacct gccgacgccg gtccacctgc caccgtcgga ccatgtgccg ccgccggttc 300
 atctgcccc gccaccatgc cactacccta ctcaaccgtc ccggcctcag cctcatcccc 360
 agccacactc atgcccgtgc caacaaccgc 390

<210> 53693
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-004-Q1-K1-G12

 <400> 53693

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 acaaggtaat acatgagttc aacagggcac aatggtcctc aaaagtccat tcatacttgc 120
 gacttgactg gttatttagg tgataacgat ttgggggtccg gcacattcac cagtttggcc 180
 agcttttagc cttgcttcta gcccattggc tactttctgtg tccaggagcg tgcgggtggac 240
 tcatacttgg ccctgtcggg cttgtacatg tgagcaatct cagggacaag aggatcatca 300
 ggggttgggt ccgtgagcag tgagcagatt gacaggagaa cctttgagat agttaaagc 359

<210> 53694
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-004-Q1-K1-H12

 <400> 53694

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 gttcgccttc ctagctctgg gtgcaagcgc cactagtgcg acgcatattc cagggcactt 120
 gccaccagtc atgccattgg gtaccatgaa cccatgcatg cagtactgca tgatgcaaca 180
 ggggcttgcc agcttgatgg cgtgtccgtc cctgatgctg cagcaactgt tggccttacc 240
 gcttcagacg atgccagtga tgatgccaca gatgatgacg cctaacaatga tgtcaccatt 300
 gatgatgccg agcatgatgt caccaatggg cttgccgagc atgatgtcgc anatgatgat 360
 gccacaatgt cactgagcag ccgtctcgca gattatgctg caacagcagt taccattcat 420
 gttcaacca atg 433

<210> 53695
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-005-Q1-K1-A4

<400> 53695

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actctcagct cactagcggc atgcagggtgc atccccctggc gagcgcgtgt cccgggtgata 120
tgtcgccaaa gatcaagggg cattagacgg acaagtgcga aggatgtgag catgcanttg 180
tgcacgaatc tgcgacgcct tcgtaccaac ccaagagcag caacacgatt acatctatat 240
ccgtcgctta aatccgtttc gtttcacgc atgcatatgt atcatgcatg ttcactgtaa 300
tgataagagc acgtgaccct atcttttggtg atatggatca cccaccacaa aacggcctat 360
tggtttttat cctaattcat atatagattg gatgagattg agagagttaa attcttaaca 420
aatcagaata tctcttaatg tctcct 446

<210> 53696
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B10

<400> 53696

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gatagaatgc atgtgtgcat gcgtatgcac atgagaatgc agataatata tatgacagtc 120
tctacgagtg atatatttag ggatataatg acggatggca tgccttcat catgaacgtg 180
atcaagaaag actttataca tgtctgcata cataagtaca aattaatgat gggatcaatc 240
atttgtgcag acgagcatgt tgtagagcat gtttt 275

<210> 53697
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B12

<400> 53697

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ggaccgtcaa gaactccaag ttcgtccagg aacacaagaa gcgctgacca accgggtgga 120

gtcgtccgaa tcgcctgcgg atgaaaaatt agccccctat ttttcttgtc ttttttttat 180
ctagatgcgt gcactctatt gtaataatgt aataagaggc aattggattg atccaacagc 240
aaccggcttc tgattttgat ccgcttcgct gacatatgca tgcagcaaac gaatatgtgc 300
cttttttttt tcttgatggt ggattgcac taatcctggt gaattggtga aaa 353

<210> 53698
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-B9

<400> 53698

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agaaaaggta aaaaataaaa aaagtaaaaa acaaaaaaaaa ggacgcccac tcttaatggt 120
ccaatcttac aacccttcc atccaacctt attactcttt tatagggccc cctaatttca 180
attcactgcc cgttctttca caacttctta cctgtaaaaa ccttgtcttt cccacctta 240
atctttttta accacatccc cttt 264

<210> 53699
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-C5

<400> 53699

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tgagaaaatc atggcactag ggtccgggat ctatcttctg tgcgcaagat cttaggctgc 120
ccgtcaggac gctttgtcgt tctccggcac agcgaacggt gtcaccagcg cggcatcagg 180
gaaaacaccg gcctgactta gctacgtgcc gatctaggcc gaccatgtga tcggtatagc 240
acacacacac tctaaacttt tacaggctct aaacaatctc caaatattct atttgtcaga 300
cagatggcta caaagacatt gtgcatgtat atttaggagt ttgtaatcat ctagaatggt 360
gcac 364

<210> 53700
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-D1

 <400> 53700

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 cacgggtgctc ctgccacaga gaaaccgtac atcactttgc tctaccgtcc tggccactac 120
 gatattctct acccaaagtg aattttgcgc atgggttagtt tcacgacttc ggttgagaaa 180
 gcacactgcc cagaaaactc gtcattgttc gcctgtgtgc tgccaaaggt ggcaaacttg 240
 cttttgagtg cttaatgcc aatgccctcgt tcaatctaga tgttctctac ctgctgtaag 300
 tcttactctg gtacaaggat ttaacattgt gttgactgca gagaagttcc cgtggaaaa 359

<210> 53701
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-D11

 <400> 53701

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 gc 62

<210> 53702
 <211> 84
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-005-Q1-K1-E12

 <400> 53702

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 ggaagggtaa aaaaaaaaaa agaa 84

<210> 53703
 <211> 263
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-E8

<400> 53703

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tgctgcatta gatgttggtc aggatctagc atggagaaca aatgcaatgt tcctgaagtc 120
agttgataga ttcaatgacc ttgtggtgtc tgtttatgta actgctggtc ataccagatt 180
catgctgctt catgactcgc gtatcgagga tggataaaaa agcttttttc aagagggtcca 240
tgaactttac atcaggatat tcc 263

<210> 53704

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-F3

<400> 53704

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cagagaactt gggtgttcaa tcatgtgcct cactgaatat tgttagatgc acaggatgga 120
tgtaattctg aaaacttgaa tggttatcaa gaagtacttc ataaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaagacaaa cgatctaaaa gaatacggtc ttctttctca 240
atgcattcag acataataac tcttttatag tgtcaacctt aattcaattt actggcccat 300
tatttacaac tccattgact 320

<210> 53705

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G10

<400> 53705

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gatgggcgga atctccactc atgcttatcg cggtcctcct cctgctcgtt tgttacaccg 120
ggactcatgg cgggtccggtg actatggtgt cagccaagac ttgcaactcg aatagctttc 180
gctttaatgt accttgctac agggacgcca actgtgcaga cctttgtctg accgaagggt 240

tcaccgacgg cgtgtgcaac ggcctacacg accgctgctt ctgcaccaat gactg 295

<210> 53706

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-G6

<400> 53706

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aacctcgcac cgtgtccgtc ttcaacgacc tttccagata gatcacccca cattcccaca 120

atcaccttac ctacctacat acatcgacga acctagccct aatctctgac aacgcataga 180

gcaacgacca cttaatctcc acattaacca gcaatctgtc acaagatcat atca 234

<210> 53707

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H12

<400> 53707

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tcagggagcc cgacaagtgc ctcgccaaga cggccagatt gttggcctat tgattgatcc 120

atcactccta gctactccta ctctggtcgc tgcctattga ttgatccatc aatcctgtta 180

attttcagaa gagtttcaga agagtcttaa taaaaa 216

<210> 53708

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-005-Q1-K1-H2

<400> 53708

aaaaaaaaa aaaaaaaaaa aaaaaaaaaat taaataaaaa aaaaaaaaaa aaaaaaaaga 60

gaaaaggat 69

<210> 53709
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-A10

 <400> 53709

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 aaagatatcc aacgcttccg gccacgcgtc cgt 93

<210> 53710
 <211> 463
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-A2

 <400> 53710

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 atgaggcttt tcttccaaaa gatcacccaa aacccaaacc agattcaacg atggaatata 180
 ggacaaaatt tataagagct aagtatgaga cacaagattt tttgaagcca agtttgcgca 240
 tttcatcaag atcatctttt aaatctacca cttctgtgaa gagtgtagat agcaatttct 300
 ctagcacttc aaggaaggat gtctttgaag atacaagaga atttgttgga gagttgaata 360
 tcacactggt caaaggcacc aacttggccg ttagagacat gctaacaagt gatccatatg 420
 ttgttttaac gctcggaggg cagaaagttc aatcaacggt taa 463

<210> 53711
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-006-Q1-K1-A3

 <400> 53711

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 caagaaggcc gccgcgagcg gcaagcccaa gcgcccgcgc tccgccttct tcgtcttcat 180

gtctgaattc aggcaggagt atcagggcgt gcaccctggc aacaagagcg ttgcgaccgt 240
gagcaaggca gcaggggaaa agtggcgtgc tatgtcagat caagagaagc aaccatatgt 300
ggaccaagct ggacagaaga agcaggacta tgagaagact aaggcaaact ttgataagaa 360
agagagcaca agtcaaag 379

<210> 53712
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-006-Q1-K1-A7
<400> 53712

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acaaaaaaaa aaaaaaaaaa aaaggagaaa atatcaaaaa atcaaaaagg aaaaaaaaaa 120
acaaaaaggt cgtcccttct atacatccca tacttacttc cccctccatc caactttctta 180
gcttttctat aagcactcct aaattcactt cactgcccac cttcttaca ctaatagact 240
tgcaaaacct ttcctttacc caacttaact gcctttcaca aaatccccct tctaccacat 300
gtcttaatac ccaaaacgcc cgaaccgatc acccttccca acaattcccc acccataatg 360
gccaatggta caacccttt 380

<210> 53713
<211> 433
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-006-Q1-K1-B1
<400> 53713

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caatggttcc gtatacatcc aaaaagaaag caagggggag attatttcag gtgccacaag 120
accagtatat gctctagagc cacatgacgt aggacgctat ttgcaagctg aaatcgacgt 180
aggcggcgaa atcgcagtag caaagactgc tggggccagta gaccctgatg ctgggttggt 240
tgattatgtg gagacgctcg taaggaaacc tgaaactgaa ttcaatgttg ttgtgcttca 300
atccaatggc gtcgatcagc caaaagagtc ggttcatgta ctaaatgtcg ggaggctgcg 360

gatgaggctt actaaagggga agtcggtagt cgccaaggaa ttctattcct catcgatgca 420
gttatgtggt gtg 433

<210> 53714

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B12

<400> 53714

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aaggcttaat aaaaaaaaaa aaaaaacttt aacaacttca ttaaaatcca accttacttc 120
ctctttcatt ccaaatcata cttttcttat aaagccacct aatttcaatt cactgaccat 180
cttttaacaa cctcaaccac tgc 203

<210> 53715

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-B6

<400> 53715

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tcatggagcc cgacaagtgc ctgcgaaga cggccagatt gttggcctat tgattgatcc 120
atcactccta gctactccta ctctggtcgc tgccatttga ttgatccatc aatcctgtta 180
attttcagaa gagtttcaga agagtcttaa taaaaa 216

<210> 53716

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-C3

<400> 53716

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ttgttggtcc taaaatagtc agaatgacat gacatctgtg ctatagatat ggacctcggt 120

ggttttctcc acattaggaa agctagaaga gccttttgaa ctcagttttt ttgctaacag 180
 tgggtgttatg gtgaaacaga gttttgtgtg tatgtaccaa caactaaaat gtaaacacga 240
 cattatcata gttgagtaca ggaataatta tctcttatat cttattgc 288

<210> 53717
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-D7
 <400> 53717

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 gttgccttgt gagcttctag taaataccaa tcgtctttgt atgttgtgtg gatgggtggtt 120
 ggcaacgttg tttatattatg cgcaagctgc tgctggtttc gggatggaag gaaagacctg 180
 gtccctgaaa caagctgctg agagtgcgcc tgcagtgtg ttgtgtctgg cgtgggtcaag 240
 aaccaaataca atgttggacc gaccgactga gagtttggag tgtgtatggt ttgctattac 300
 tcttatctct agtagagtgt gggatatacct gggcagaatg tgtcccaaaa agttgggggc 360
 ctgtctgtgt actgtgtgcg atggacgccc taagtaaaaa aagggcangt gatgggtcgtg 420
 ctccaggttt gtgttttgta ctctgttgta ccttgaacc 459

<210> 53718
 <211> 127
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E1
 <400> 53718

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 gcgctgtaaa gtagtggttg tgtggtaaata tcagaatgtg taagttgaat ttatgttatt 120
 accaaaaa 127

<210> 53719
 <211> 190

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-E4
 <400> 53719
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 cctcttagta tgtaaaagga gtggttggga catgtggtac tctctcctag aactttaatt 120
 tgagatttgt aacatgtgag agactattga gaataatatg tatggagtaa tatgcttcct 180
 tcttttaaaa 190

<210> 53720
 <211> 452
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-006-Q1-K1-E6
 <400> 53720
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 aatttcatct ggaaggcaaa cgcgtattgg aggttggatg tggacatggc ctggctggca 120
 tttttgcggg tctcaagggt gctgacctga ttcatttcca agatttcaat gccgaggtgc 180
 ttaggtgctt gactatacca aatgtaaaag tcaatctttt caaggattca ccagaaggaa 240
 catgtacatg tccgattgtt ggtttctttg ctggtgattg gagtgaaatg gataagctac 300
 tactttgcgg ggatgctgag caagacaaaa cagccagtgg tgatacagaa ggtaaaatgt 360
 gtaatggtta tgatatcatc ctgatggctg agactgttta cgcggtatct tgtcttccaa 420
 atctctacag gctcatcaag aagtgcttgc gc 452

<210> 53721
 <211> 459
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-006-Q1-K1-E8
 <400> 53721
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gctagctgag gtcgacgatg gctggtntgc tgaacagcag gaagacgccg caggcggtgg 120
 tggccgtgct ggtggcggcg gcgctgctgg ctctgtccgc ttcggcggcg atcacctgcg 180
 ggcaggtggg gtcgtcgctg gcgccgtgca tcccgtacgc gacggggagg gccagcgcg 240
 tccccgcgtc gtgctgcagc ggcgtcaaga gcctcaacag cgcggcgcg accagcgcg 300
 accgccaggc ggcgtgccgc tgctcaaga gcctcgccaa cagcgtcaag agcgtcaaca 360
 tgggcaccgt cgccaccatc cccggcaagt gcggcgcttc cgtcggattc cccatcagca 420
 tgtccaccga ctgcaacang atcagctaag ttacgacga 459

<210> 53722

<211> 315

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-E9

<400> 53722

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaagc aagattaaaa aaatataaag agatacaaat 120
 aaaaaaaaaa atacatacaa cataataaac atacataaat aaataactaa atacaattaa 180
 ataacaaaaa attttacaac ttttaaaact gctaaaacct tgaaactacc caacttaatc 240
 tcctagcact aaatccgcct tttaaaaaat actttaatct ccaaaaatct caccctatc 300
 tcctttaaaa acatt 315

<210> 53723

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F3

<400> 53723

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 tttcagaaac cacctcttct gtttagctat tttgggcagt aagtcaagca gtgctttgta 180
 ttttgtaa ataggcattctt tatgttaata aatctgtata gaaacaaaat tggtcattca 240

ataatcaata gtattatcag aattacattt ctgtactaca acaattattt tatcaaacia 300
 gttaaaaaaac tatcttgga attttatcca acctattttt ttctaagtca tgtttaggaa 360
 ggtaggtttg taatttttac tattacaagc agttatacta attgctatta aatactactc 420
 aatttacatt tagcattctg tattcagtgc tg 452

<210> 53724

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-F5

<400> 53724

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 gcctcctgct cggttccca cccctgctgc ctgcgttgca caccagggag gagctcctcc 120
 gaccgaccgg ccatgagcta ccaggctcct cctccgggca cctcagccta cccgccgccg 180
 ggcacggcct accctccgcc aggccagccg caggcgtacc cgccgccggc atacggcgcg 240
 ccgccacca tggccgccgg cgggtaccct ccccgccgc agcaggactc taagggcggc 300
 aacgacggct tcctgaaagg atgcttgcc gctctctgct gctgctgcat gctcgacatg 360
 tgcttctgag ttctgctga ggggctcagg gcacgngat ggccgccta gagtccagac 420
 cgatctccat catgcagtca ggcgaaaaac aatgcat 457

<210> 53725

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F6

<400> 53725

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 aaaaaaaaaa aaaaaaaaaa aaaagcaaaa tttaaaaaac aaaaaaggcc tacctacttc 120
 atccatcaa cttcatcta ccctcttcc aacatcaact ctctcatttt accccaccta 180
 aatcacaatt ctttccccct ccaattccca acactcacta ttcttaaaac cctatactta 240
 cccaacttaa tcctcttcca caacatacac ctttctccac cttaccaaat ttctaacagc 300

ccctacttca tctcccttac taactacttc tccactctat tct

343

<210> 53726

<211> 456

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-F7

<400> 53726

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atttcaagac tggagctgag agaaaggact gtntcgataa caccatggtg gcgtacaagg 120
ctgcccagga cattgctttg gctgagcttg ctccaactca ccctattagg cttggactgg 180
cactcaactt ctcagtgttc tactatgaga ttctcaactc acccgatcgc gcctgcagtc 240
ttgcaaagca ggcttttgac gaggccatct cggaactgga caccctgagc gaggagtcct 300
acaaggacag cactttgatc atgcagctcc ttcgtgataa cttgacccta tggacttctg 360
acatctcgga ggaccctgcg gaagagatca gggaggcgcc caagcacgac tcgagcgagg 420
ggcagtaaag ccggctttac gtgcctagaa gctagt 456

<210> 53727

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-F8

<400> 53727

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ggaatggaat attatcgttt ttatagattt tggttaatctg ttagtatgtg tttggctgca 120
ctctaataca tcatatattt catccgtctc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaacaaac taataacaaa aaaaaaaaca aaaaaaaaaa cgcttgcctt tttaaagaac 300
ccaagctaac gaccccgacc atgcaactta taacgtttta catggggccc ccaaaattaa 360
atcacctg 368

<210> 53728
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G1

<400> 53728

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ctagaggaga tccaggactc actaagcacc ataagatagt aatgaattta cttcacacta 120
cagaataatt aattctaaga tggaaaaatg ggaatttaca ggacacagca gaataattcc 180
aagatggaaa acgaatgtac cgtcagacct ctgctcatcg atagatatgt atacaagaaa 240
caatatatat aattctcacg tcctcccgtc tcccctccct ttctctcccg caccacctcc 300
gtgtaatacg tagtgtactg tgtaccctat gtaagttaag gaatgctgca gattcagatt 360
acgcatt 367

<210> 53729
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G2

<400> 53729

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gcgcgcgcct gtcggcgccg actggtcaga tcgtgccggc gtaccggaac ctgctgtcgg 120
gcaagtgcgc ggcggcgggc ggcggcgccg acgaccccgt ggtggccaac aacgtgcgcg 180
acgaggaccc gcgcgcgcgt gcggcgccct tcccgtcctt cctcggaag ctgcgcaagg 240
ccagggactt tctggacaac agctactacc acaacaacct ggcaaggatc gtcaccttca 300
actccgactg gcaactgctc acggagaagg aggcgctggg gcacgtcaag gactacgccg 360
agaacggcac cctctgggac gaggac 386

<210> 53730
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-006-Q1-K1-G4

<400> 53730

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gcactctcct gtgctgacaa atggaccctg tccagctcaa gtgagccaca taatatatct 120
ttccattact taatacctga aggaagcata ctattagaca taccggtata tattattggt 180
cttagtcatc gcacaagact cttgtcaaca agaccaacaa caggatgagg actgccgtgc 240
atgctgcgct ttgcattgtg cttgtgataa tgtcttcaac actgtcatct tgcgaggacg 300
atgagaaggt atctatcgca tgtgacacag gatgcaatgc cgcatctcc cgtctcaaat 360
gcttctgat ggcctattct gaagggaaag tgttggtcag cagcaactgc gaaacg 416

<210> 53731

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-006-Q1-K1-G6

<400> 53731

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ttttggctgc acaggatgat ggtggtggtg agtcattgga gcgtgtttat gagacgtcta 120
gatgcaatgg atgctggaac tgcagaaaag cgagctgctg aaattttatt tggctctgggt 180
tttgacaaac aaatgcaagc aaagaaaact aaagatttct ctggagggtg gcgtatgagg 240
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aaccatctag atcttgaggc ttgtgtctgg ttggaagaga cactgaagaa atttgaccgc 360
atacttggtg tcatatcaca ctccaagat tntctaaatg gagtgtgtac taacattatc 420
catatgca 428

<210> 53732

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B10

<400> 53732

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 caaaacatac aaaaaaaaaa aggaaggctt tataaaaaaa ggacgacgcc tatatacatc 120
 accaacccgt ctaccatata tcgctttccc ttccttttct ccaactgtcc atgtccctac 180
 ttatcctacc cgccttacta ccaactcaaga tctcatcaat tcctttaatt tttccgcatt 240
 taataacttt tcgtctcaac ctccattccc taactttctt actaacgcta tcacttgcac 300
 catctcacac ttc 313

<210> 53733

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-B12

<400> 53733

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 tggttgcttt ccatgattct tctagcatcc tttgttgctc atgcacgcac aacaagtggg 120
 cacaccaaag aggacagcaa tgctaggaac atgacgatga ccaagacgag ggcacgggc 180
 aacatacttg ttagccgtaa tgacgacggg ccatgctatc tagattccgg tcttaatgag 240
 tacgtctgca gaaagactaa taagtgtat aagagcttgg tgctctgcgt ggcgagttgt 300
 caaccatcat catgaattca tgatactgcg gagacatcat gatactgcgg agacagacgg 360
 cgagagatga ggctagctag atgctgtttc accaaaatat tatgtaacac ccaaac 417

<210> 53734

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C12

<400> 53734

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 ccgctaaaat taacaactct aggaacggt actcaaacta gcggctgacc agcatcatta 120
 cattcaccaa ctcttagact gccaacacaa atcctatctt acttacatcc aagactcaca 180
 ttaccgacct tttaatcatg attctgagct tcaacctgta aacacatatg aaaactat 238

<210> 53735
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C4

<400> 53735

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aaaaaaaaca aaaaaaaaag aaagctattc aacacagagg acgccgaacc aagcaaaaaca 120
atactgtcac acaaggacgg ccgaccaagt gctggttctc gcactacgcc tccacggcgc 180
tgaactggcc gggcgccctc cgggtgccgc ctcatcgctc tccgagtctc gcgcttcctg 240
cccctgcttc ctgtgcttcc tgttcaccag ctccctccta gtgcgctcgc acccctgctg 300
cgcgctccct gtctgtctgc cgatctccgc ccgcggtctg gttcccttgc tcgacgactt 360
cc 362

<210> 53736
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-007-Q1-K1-C7

<400> 53736

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gccacatgta tagtgccgga tgcccagatc gggagatcgt catccggact tcgggcgaga 120
ctcgattgag caatttcctc ctttggcaga caacgtttag tcacttgcag aatccagatc 180
ctttgtggcc cgagtttctc tttaggcacc ttgtttgggc tatcttgcag tatcagagag 240
tttaccttgc tctggagcat aacagaaagt tggctaagaa gcagttgtga ttccatgtta 300
tttgcaaaga ggtatcatga agggctatta acatcaaact tttccttctc aatttcccg 360
taatgggaaa tgcaaagaag aacatactag catataacat tatgaataga tcaccatgta 420
acttaagtgt gattgctacc gtaacatgt aacttaacca tgtaac 466

<210> 53737
<211> 125

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-D3

 <400> 53737

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 aaaaaaaaaa aaaaaaaaaa aaaaaagaaa acttaaaaaa actaaaaata aaaaaaaaaa 120
 catac 125

<210> 53738
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-007-Q1-K1-E8

 <400> 53738

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 gctatccaga aaggtctcac ggaggacagc atgggatgga cgttgcagct aacttagcag 120
 cttttttcac atgatcgagc tctacaactc ttatttccgt tttctcgata agtctcactt 180
 ctatcaactt gttcttctgt tgaaacagag tactttaaaa gggatcccca ataatgactt 240
 tccctgtgta ttgctgatat gttggcacta gatatttttg gaaactctat ttaaagcaca 300
 gtgttttgca ccaaaaaaaaa aaaaaanaaac aaaaataaat aa 342

<210> 53739
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-007-Q1-K1-F12

 <400> 53739

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 aaaaaaaaaa aaaaaaaag aaagatataa aaaaaatta aaacatcata aactgaaaaa 120
 aaaataaaaa ttaaaaaaaa ttaatcaaaa taaaaccaa aaaaaattta ataaactaaa 180
 aataatcaac aacaataaca ataaacaata aaactataac acatatttac aacctgaatg 240

cctttttcta ctccccactt attctgcacc ttaatctcct taaaaattct ttttt 295

<210> 53740
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-007-Q1-K1-G8

<400> 53740

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gggaacactg cactagatgc agctttgaat gctcaatttt tgggtccagat tgggtattttt 180
acagcagtgc cgatgataat ggggtttcatt ctggagctgg ggctgatgaa ggctgttttt 240
agttttatta caatgcagct ccagttctgt tccgtgtttt tcaccttttc gcttggaaca 300
aggacacatt actttggtag aacaatcctt catggcggtg caaagtatcg tgctactgga 360
agaggttntg ttgttcggca cataaaagt gctgaaaatt ataggctcta ttctcgaagt 420
cactttgtca aagcg 435

<210> 53741
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-008-Q1-K1-A2

<400> 53741

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gacccgcggc acctacaagg gtgatgctgc cgccgacacc gagagccttc acgtcaagga 120
ctacaagtac tgagttgctt ctctttgcga tcccgttggt ttggaactcc tgctgcgag 180
taggttgctg agtggtgttt gcttggtaga gcttttatat tcggacatga aaaaaacatg 240
cttcctatgt ggatgatggt tatctttata ttcgtatatt aactactagt ctctgttggt 300
aaaa 304

<210> 53742
<211> 177

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-008-Q1-K1-B10
 <400> 53742
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 ggtataaaat aaaaaaaaaa aaaaaaaaaat aaaaggccgg cctttctaaa gtttccaagt 120
 ttacttacgc ttgcttgcaa cttcatactt cttctatagt tttacttaat ttcattt 177

<210> 53743
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-008-Q1-K1-B7
 <400> 53743
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 actggcactc aacttctcag tgttctacta tgagattctc aactcaccg atcgcgctg 120
 cagtcttgca aagcaggctt ttgacgaggc catctcgga ctggacaccc tgagcgagga 180
 gtcctacaag gacagcactt tgatcatgca gtccttcgt gataacttga ccctatggac 240
 ttctgacatc tcggaggacc ctgcggaaga gatcaggag gcgccaagc acgactcgag 300
 cgaggggcag taaagccggc tttttaacc gtgccctaa gaagctaagt annctagt 360
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<210> 53744
 <211> 142
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-008-Q1-K1-C10
 <400> 53744
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 aaaaaaaaaa aaaaaaaaaa aaaaagggtgt aaatttaaaa taataaaaa aaattaata 120
 aataataaaa aaatataata ta 142

<210> 53745
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-G10

 <400> 53745

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 atccatattt gctgttcttg caagtgaact actaggagca caagtctatg tgccacagcc 180
 ttcatgtcca tgtactaccc ttgttcagat tctacagggg agcacaggga ccactctgta 240
 gctttagttg taccaacgct tctattaaga agtttacgga tgcacttgcg aagcacaagc 300
 ctgatacatg gaaccttggc ccaaccaggg ggc 333

<210> 53746
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-H10

 <400> 53746

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 gacgaagtgc cagaagcgcg cgagcatcca aggactttgg ctcttttcca tggttcttct 120
 agcgtcgtcc tctcttgtct gtgcaagcat ggcggtagat gggcaaacca aagaggacat 180
 caacgcaacg agtgtgacga gcatgaacat gacgaggtcg tcgtcggcga gctacaacat 240
 gactggcggc ggcggagaac ttaacagagg tccgtgcgtc gtgagatctg gattctactg 300
 gtgccagaac attggctatc cgaccatgct ggagtgcttg aagaactgcg aatcgtaaag 360
 cactggagta tagaaaagga ataaagtggc ctctgctagc ttaaaa 406

<210> 53747
 <211> 210
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-008-Q1-K1-H12

<400> 53747

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atccatacaa gagcctcgcg cgcacggtca gattgttggc ctattgattg atccatcact 120
cctagctact cctactctgg tcgctgccta ttgattgatc catcaatcct gttaattttc 180
agaagagttt cagaagagtc ttaataaaaa 210

<210> 53748

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C5

<400> 53748

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gcttttttagc aatcaaagga atgaaaaggg attgggtcat ttgttatttg tcctatcaac 120
accctatatt atggctacaa cactatgtac aaagtgacat catacaatat atatatagca 180
tacgcctaat ccaactggagg ataatgtaca ttcacgtgac aagctatacg acatggataa 240
aacatgggta attgaacaga gagatgataa tcggttggtc attgctcttc taagagaatc 300
aaaaatgagg ctatctgatg atatcattga gacaatcctg gataagacat tctctgatgc 360
tgatgcaaat 370

<210> 53749

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-009-Q1-K1-C8

<400> 53749

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cacttgggca cacacttgga aacacaggtg ccctaccaga cacacgcatg atgcgtgcat 120
acactacata caaagacggg agccatgtcc acgccacgta caggcacagg gctcgccggg 180
cacac 185

<210> 53750

<211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-D4

 <400> 53750

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 ggtgagttac acgctgggcg ggggttggtc agccgtcggc aaccacctca ttcccatcag 120
 tctcaccgtc gccttcgagg caaactcgaa tcctcctcgg tcaccacatc cacagccgtt 180
 ccgagcttga gccgtctggt gctccggtaa attgcccttc atcttgtttc ctgtagagag 240
 aggtcattta ttgtgaccgc atgccttata ttaagacaag tcgtgtcaag ttttctgaac 300
 gatgggagct tattgaacca accatcctgg tgttggatgc c 341

<210> 53751
 <211> 108
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-G5

 <400> 53751

 cccacacgta cgaaaaaaaa aaaattaatt ttataaaaaa aaaacaaaaa ataaagacaa 60
 ggatatatat aaatgttggg tgtgaattaa tttataggcc attaaatc 108

<210> 53752
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-009-Q1-K1-H3

 <400> 53752

 taaaaaaaa aaaaaaaaa aaaaaaaaa taaaaataaa aaaaaaaaa aaaaaaaaa 60
 agaaaaagg aaatttttaa aaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 120
 aaaaaaaaa aaaaaaaaa aagggccccc cttttaaaaa aaccaaattt tacttcccct 180
 tcattccaaa ttaaaaattt ttaatatgg ccaccaaat taaattaatt gccctttttt 240
 taaaaacttc taaactgaaa aaaccctgcc ttacccaaat taaatccctt taaaaaaaa 300

ccccttttcc caaatttgat aaataacaaa aaacccccca ccatatcccc ttccaaaaat 360
 tttcccaccc ttaatttcaa aattaacccc ccctt 395

<210> 53753
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A1

<400> 53753

gaattccggt cgaccagctc cgacacgcgt acgattttcg ccactcaggt tcagaaaaaa 60
 aaagggcag 69

<210> 53754
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A10

<400> 53754

cgaattcccg ggtggacgca ctcgttcgat ttccgtccaa agcgtttccc cgaggagtat 60
 ctcgtagcta ccatgttgcg tatgcgctgg ggcttcaaga cgggagcatc gcatgccgag 120
 atggaccctg acgctcgagt ttattatctg cggtgaccaa ctgaccacaa aattgtctat 180
 ttttacgtgc tgaattcaac aaccaagtcg cattactaaa aagtattgaa cataaaaaact 240
 t 241

<210> 53755
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A8

<400> 53755

gcagcatgat gaaacatatt atggaacaaa atatatacct acggcagcac gcagcatgag 60
 gaaacatatt taaaaaattt ggggtgctcta ccacatgccc gtggaataaa acggatgtaa 120
 actcagtgc aaaaaaaaaa aaaataaaaa ataaaataaa aaaacaaaaa aaaaaataaa 180

acaacacaaa gaaaaaaaaa ctacaaaaaa gcaagcacia aaaaataaaa aaaaaggggc 240
ggccgtttta aaggatccaa gcttactta 269

<210> 53756
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-A9

<400> 53756

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ggatgtgagc atgggcatgt ggggtggagaa gttcaacagg acgcggcggg cgggtggagat 120
ccggcagcagc gtgcgggttct accagtcggg ctgctacaac ggctacttca cggcgcacta 180
ccagtccccg cagcacatga tctgcctgtg gcggaagctg cagtccggga gtgcccgggtg 240
ctgcaacgtc agatgacgca ttgcgagaga gagcctgatt ttgtactctt tcttgatcaa 300
agaggagaga aacagatggg ggtggacgac gggtcggcag cccgtaagcg cagctcttct 360
gcgatggaca cagctgacga cgacccgtta cgacggtggg tttgc 405

<210> 53757
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-B10

<400> 53757

tcccggggcg agccacgcgt ccggcggaga gaggactgaa agcttaatac tgatcaactc 60
caacaacgag gctattattg ggcagggaac attcggatct gatgacaacc aggaggactc 120
aagcaacaca agttctgggtg tatcacttgg ggattacttt cttggtcctg ccttagacac 180
tctcttgagc cgtttgccgg agagtgcctt cagtcgttct ggcacaccgc ctgccaagaa 240
ggaagcagtc gccgcgtac caaccgtgaa catcgaggaa gcgttgggct gttcagtctg 300
tcttgaggat ttcgagatgg gaggagaagc gaagcagatg ccctgtcagc ataagttcca 360
ctcgactgc atactcccggt ggctggagct ccacagctct tgcccaatct 410

<210> 53758

<211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B12

 <400> 53758

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 ccaaacaagg ccttatgtga gaaagtgatt caaaataacc aggactatta gtggcttcgt 120
 gatataccaa tatgtgacaa aatagttgat gacacgagca tctaaatgga actcaatttc 180
 atgtgttgac tctttgttta cagtcacga gaggatgggtg acaatggcaa gcctgatatc 240
 aagttggttg gtgagcagca cgccagtggc cgacgggggg ttgttccatc ataatcatat 300
 tacagctgct gcaactgaca agcccaatgc atcttctctt ccatgttgga tcaacactct 360
 tgtaatgtat tatatt 375

<210> 53759
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-010-Q1-K1-B4

 <400> 53759

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 gaggttgat tacagtgcac tgagtancga tctaaatgtg actcctgctg ggtcgtcgt 120
 ggtagaatgt attgcgcgaa gtcgtctact gcgatcaaga ggtactctcg gcctgtccag 180
 cgtacgtcat ggatgccgat cgcacatgc gcgtactcgc catcgatctc gggggggcgc 240
 g 241

<210> 53760
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-010-Q1-K1-B9

 <400> 53760

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ccagatgtcc cagatcctag acaccggcgt cgagcgccac accctgtcgc tgctcatggc 120
gctttgcgac cgcgagacca accccgaggc attggccgcc ctcgcccgcg agctctcctc 180
tgctgtccc ccaacctccg ccgcggttc ctccccgtg agcaacggcg ccgcgggggc 240
ggcctcggca attgcgcca cgttctcctc cggccttcgc cgtccctagg gtgctgctaa 300
aaagtctgaa tggaactggt gtagttttcc aagcaagaca agatctcgct gctggaatcg 360
ctggatgaaa aggattgcct ttacaattcc atgtgcgcgc tgctgtggtg gtgtggttcg 420
accacaaaac atgtggctgg gttcatagag ccacagaaat acacgcgc 468

<210> 53761
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C10

<400> 53761

cggtccgga ttccccgggc gagccacgcg tccgtgtct ctctctttct cgcgctcgct 60
ttgcttctc gtcgaggtcc aagttcctgc ggtgatggcg accgaggtgg ctgagactcc 120
cgcgccgttg gcggaggcgg tccccgagac ccccgcgag gcaccggcgg cccccgccgc 180
cgaggcgaag cctaccaagg ccaagaaggc ctctgcgccc aagaagcgtg ccaacccgac 240
ccaccgccg tacgccgaga tgatctcgga ggctgtcacg tcgctcaagg agcggacggg 300
gtccagccag tacgcgatcg ccaagttcgt cgaggacaag cacaaggaca agctcccgcc 360
caacttccgc aagctcctgc tcggccagct caagaagctc gtcgacggct gcaagctcac 420
caaggtgaag aac 433

<210> 53762
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C12

<400> 53762

ggaattcccg ggtgcgagcc actcgtccgc tgactcgttc ttccacgcgt tcgctcacgc 60
ttccggatcc ctgccggtgc tgtggccatg gcctaaaact tccaactgca gagcctgcac 120

ggcaagtcgc gcgtacgcgt ctacaccgtc tggcgccgcc cggccgcggc cgtgggctac 180
gctatcgcta actggaacgt caacgacagt atcgctctacg actgggtaac ctgatacacc 240
tacagcgaca actacatgca atttcaccac agattccatc atcaacaccg tgcattgtcaa 300
cagccaaaga gtgcacggaa gtggtgtcca tggctgaatt cgccacgatt cttggaaggc 360
atttcaccat cttgtaccct gacgtctcag aagccacggg gactatcgca gagcgccca 419

<210> 53763
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C5

<400> 53763

gaattcccgg gtcgaccac tcgtccctct agacacccta aacaacatac tatactctct 60
caccaccata acttatccat tggctagtct tcactttacc tttctcatca ctcattacaa 120
attctaccct tactatacaa cccataccat tacaatattt aaaaccatac ttataacata 180
acaca 185

<210> 53764
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-C8

<400> 53764

aattcccggc tcgaccact cgtccgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaattaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaagt ataattaa aaaaaagtag ggccaatcta 120
aaagttcc 128

<210> 53765
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-C9

<400> 53765

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gcccgtctaaa gagagtgggt gcaaaaatcg ctacgccgac cccacctaa ggcaccgact 120
cgccgggggac agagagagac cgacgcgccg gcagatccca agctcaccgg agagggggaa 180
gagggcgacc gaaggcggcg atgggtttca tcatggactt cgcgggagaat atgatacctcc 240
gtctgatgga ggacccggac aagcgcgacc aggttcggcg ggagcatgtc tacaagatga 300
aggagcgggtg cgagcgcact aaggcggcgt ggagcctncc tctgcgcccc tacggcttct 360
ggaccttcga ccgcttcaac tcgcagctct cctgggatcc ccagatcagc caggccggcg 420
gccgtccgga cccctacgat gacc 444

<210> 53766

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D1

<400> 53766

ccattccttg tcgcccgtgt gcattctgat ccataaagg atcgaatgct agtccaacat 60
caacctacca ttgccgtcga taatgagatg acttgtgctt tctgttataa aa 112

<210> 53767

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-D2

<400> 53767

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gaatgggttaa aacccttgaa ggtctgggtat ctgcttggag atgttaaaaa aaaatgactt 120
gtgctaact 129

<210> 53768

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E2

<400> 53768

gaattccccg gtcgaccgac gcgtacgcct aactatagta tcaagtatga cccagattga 60
caataatcta ccacggcctt caaaaacgtt ggagattatt aatgggtactg ctgtaagcct 120
gttaacaaag ttaatgcgta tgac 144

<210> 53769

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E3

<400> 53769

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gcgattaacc gagtatcccg gatctaccgg caactgcata tctttgaagc atcacacagt 120
gccctgtgga tacggaagat ccagctcccg gtccttccga ggccaatgtc gccacgatca 180
gcagcatatt gctcatacta gcagctatac gctgtgaccc tgacaaaccg agcttcatct 240
cagccttatg acgacgtcta ctctaactaa ctggtgacct gagatccc 288

<210> 53770

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-E9

<400> 53770

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ctgaagatcc tgctataatg caaggggtta tgtctatggt gacggtcctc aactgaggt 120
caccagaaaa tgcagcacgt gcaatggaag aaggctatgg gacactggct atacagtcaa 180
tgcaaagggt cccctcctcc gtgcagactc agaagcaagc atgccttatg attcgcaatc 240
ttgttgcccc aaacctgag aataggatcg tcttgcctaa tgatgggtgca taaaagctta 300
ttagaaaggc aatggcgctg cacagaagct gtaaagatgc tgcttcgtct gccttgaggg 360
acctgggcct cgacaactac aatgcataga caccagtgcac cagtcacacc atataaaatg 420

tgcgctcgagt tagtttggt

439

<210> 53771

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-F12

<400> 53771

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gcggatttgt ccaatattct ggcggtgcat tatctgagga ggccataaag gtgctaaatg 120

gaagccagtt gggaggtcat agcataaggc tctcatgggg ccgtagccct gcaaacaagc 180

agcctcagca agagcagagc caatggagcg gtgggtggta ttatgggtat cccaaggat 240

actatccata tggtatgct cgccccctc aagatcctgc catgtacgcc tacgcagcat 300

atccagggtg tggaaattac catcaacagg caccacagca gccccgccca caacagtaat 360

gatgtcccgga gagtgatcat ttgcaagctg gtcgcaaagt 400

<210> 53772

<211> 286

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-F3

<400> 53772

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ccatccacaa tagcctcata tcgaatctgt nagggtttct agactgccga ggaaaaagga 120

tccgtgcgcg gctgatctca ctactataag tatatcgcat tccgcgagtt acaaggacaa 180

ctgctcgatg tccttatgtt tgctgcttgg taataccgat ctgttcgcta taatcatcga 240

tcagcgtgat gtgaaccact gtttacattg ctgcgtact aataaa 286

<210> 53773

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G3

<400> 53773

attccctgct cgaccactc gtcctaaaaa aaaaaaaaaac aaaaaaaaaac taaacttta 60
cacaaaaata caaataaa 78

<210> 53774

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-G4

<400> 53774

ttcccgttcg accgacgcgt ccgccaacgc ttccgcccac gcgtccgtcc actcttcctc 60
aggaaatggt ggaccatttc caggaacagt ggtgtctttc agcccatgga taactactgt 120
tgctgctgta gttgatgacc gcatatacaa gaatcattta aactacgaa atggaaaact 180
tctctctggg cttggagtat cacctgcaac acatgggaat atgtcgttca gcttgatttc 240
tgcagctgat gctctattgg gttcatctgc aaccaatttc agtgcattag attgccagaa 300
gcctgaacta ttgaataaca ggaaagtcca cgggagaatt ctcatgcgtt gctattcctt 360
caattacatt tctggacaac ttcaataaaa 390

<210> 53775

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-H11

<400> 53775

tcccgggtcg agccactcgt ccgctctcgc atgttgtgcc aagaaatggt atattagtta 60
aactagtaga tacaactaaa gttagtgatg tgggtgtctgc aattggaccc tccactagac 120
tgttcagtct acaaagtccc acgaaccctc gtaagcaa at tactgacatt aatacaatct 180
cagagacagc gcattctcat ggtgctcttg atttggtgta caacatcatc atgtatacag 240
tgctctcccg tcctatataa ctgggaactg atatcgtaac tcaactccgt accaaattta 300
tagccggaca tatagatctt attgctggaa ttattgcagt 340

<210> 53776
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-010-Q1-K1-H3

<400> 53776

attccccggt cgaccctc gtccgaaaaa aaaaaaaaaa aaaaaaaaaa aaaattttta 60
aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aatattttaa a 101

<210> 53777
<211> 201
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-010-Q1-K1-H7

<400> 53777

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gttcaagttt tccgtaacct tgtccaatca tgggcatggg ggtgtggcca ttttggaaaa 120
gtggccactt ttgtttatcc agccatttgt acaactggag gccatggttg attcaaagga 180
ccggccggtg tttttcttcg g 201

<210> 53778
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-A11

<400> 53778

tataaaacaa gccagttttc ttggtgagca aggggagttc attgccagtg gaagtgatgg 60
gggtagatgg ttcatatggg agaagagaac aggaaggctt attaaaatgc ttgcagggga 120
cggagctggt gtgaactgca tacagtctca tcccttcgac tgtgccgttg caacaagcgg 180
aatcgataac acaataaagc tatggacacc cgatgcaa at gctacatcaa tggtttctgg 240
acctgaactt gatgtattga gtgcataga gaataatcag cagaagttat gtcggaaccg 300
tcactttgta ctatgcatga gttttcagaa ggtttcgagt gtgcccagag ctgatttact 360

atcgctggag ctgcttgaag aaaagggtaa tacttggaag aatgatatca 410

<210> 53779
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-011-Q1-K1-A5

<400> 53779

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ttctcgtctg aaaatgtgtc ctaagcatgt cagcaagtaa ggatgttctc gcgcttgccct 120
cacttgaggt tgacctctca agcattgagc ctggaaccac ggtgacggtg aagtggcgtg 180
gcaagccggt cttcataagg cggaggacag aggatgatat caagttggcc aacagtgttg 240
acgtcgcata cctccgncac ccagagcaag atgcagagcg cgtcaagaac cccgaatggc 300
tggtcgtcat tgnngtctgc actcacctgn gctgcatccc gctccctaata gcangagact 360
ntgggtggctg gttctgcccc tgcca 385

<210> 53780
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-C1

<400> 53780

ggtttctgca aaaaaaaaaa aaaaaaaaaat ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
ggaaaaatga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aggggcggtc cttttaaggt atccaagttt acttcccctt gttccaacg 180
tcataccttt tttttagggt cccctaaatt caatt 215

<210> 53781
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G2

<400> 53781

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ctcatgcaaa ccgatgaatc tatctctgta tcatcgatct cggttgcttg ctagtccaga 120
ctccagacat ggctatatat atatagtctgg tgctaataaa taggagtata atcgtcatat 180
cgatcgggtg cgtgtggaat gccaatcatg tgtgtaatct gttggcaaata acaaacctc 240
tgttcctccc aaaaaaaaaa aaaaaagaaa agaataataa aaccatataa agac 294

<210> 53782
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-G4

<400> 53782

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tagctggctc ccccggtgctt ccatcgaccc gcttcgcgct tcatgtttac tacttgcgat 120
actgttggtt cttgtgattg atgatgataa aagccacggc ctgtgttact actgctgtaa 180
caagtccgac agaagaacca tccaatgcag gccacgaag gggatccagg ctgcgccggc 240
ctagtactcg gcttagggag tttgtgtgag ttgtaattga gatataaggg aatattgatt 300
agggaataa 308

<210> 53783
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H4

<400> 53783

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gaggcggacg cgcattcagt cgtgaacgcg cgcgcggacg acttcatcaa caagttcagg 120
cagcagctac agctgcagcg actgaactcg ctgctcaact acaaggagat gctcaaccgc 180
ggcggtgaca agcagtagcc ggagcgtgca aggcggaggg agaagggtag ctagctgtag 240
gatccaatcc aaaaccatac tgaaaaaaaa atcgatcttt ggtccatcaa ccactagacc 300
tcgagtgtgg attatgcagt gttgttctta ttagcatcgt tatgtaagaa tcgctatattt 360

ttcagcttgt taatttcaat tggtttgtgt tgctggc 397

<210> 53784
<211> 128
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-011-Q1-K1-H6

<400> 53784

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gggatcctag cttacgtact cgtccatgct acgtcataac tcttctatag tgccacctaa 120
attcaata 128

<210> 53785
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-A5

<400> 53785

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gaagatggac acgaaattgg atgtgctcag tcatacgcaa agaacatggg actttatgga 120
caaagagcag gatgcctgag tattttgtgt gaggatgaga tgcaagcagt tgctgtcaag 180
agccaactgc aacagatcgc aagaccaatg tacagcaacc cacctgttca tggtgactg 240
gttgtttcta taatcctcag tgatccagaa ttgaagagtt tgtgggttaa agaagtcaag 300
ggtatggctg atcgtatcat tggaatgcgg aaagcactta atgaaaatct tgaaaagcta 360
ggttcacctt tggcatggga tca 383

<210> 53786
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C10

<400> 53786

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 taaattcaat t 131

<210> 53787
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C2

<400> 53787

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 aagaaggggtg gtaagaaaaa gaccgtcgat cccttctcta agaaggactg gtatgacatc 180
 aaggcccat cggtcttcag tgtgcgcaac attgggaaga ctctcgtgtc caggacacag 240
 ggtaccagga ttgcctctga tggctctgaag cacagagtct ttgaggtttg tctagc 296

<210> 53788
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-C3

<400> 53788

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 gccttctttt aagtttctaa tgcaaagtag tacactagct cgttactatc tcctacatac 180
 atatacatgg ttccagggtt atcagatatc ttctggcatg taatcacata ctttctgtct 240
 ccataatatg cttctaggac tcactcctgg tattgctatt agtggttatgc ttgttagaa 300
 gataataatt tcatctcata gtaatcccat gtactaatac atacccatga aatataatgt 360
 catgaaatca gttctgactc g 381

<210> 53789
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D3

<400> 53789

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tttgcgccgc cccagatcc ggcaccgcg gctggtcgaa cccgcacccc acgcccgcag 120
gccgggaccg gtggggcgcg gccgggcagt aggagggaga ggaagggcgg catggcggcg 180
ccgccggcga gggcccgggc cgactacgac taccttatca agcttcttct cattggggat 240
agcgggtgtg gcaagagttg cctcctgttg cggttctctg atggttcctt cactacaagc 300
tttattacca caattggtat tgacttt 327

<210> 53790

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-D9

<400> 53790

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gaagtggagg ctgatcatgt gcgtgtatgt gttggagcgc gcggatggtc tactaaatga 120
tcccaggatt gtttcatgat acttgttgtc atcacatgtt tgagcaatat tactacattg 180
ttgatctact agttccttac gatatttggt ttcgttcctg cctatgggtg atggaaaatg 240
ctattgtgct aactggaaaa aaataaaatt ataat 275

<210> 53791

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-E2

<400> 53791

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tcacttgctg ccgagctgaa gagaatgcgg aatgagaagt tgcgaaacga gttgagcaac 120
attgacatct gcgacgagga ccggatacaa gcagtactca acacattctt ggaagacctg 180
atgagcgatc ggctggaaga ggctgtgtgg cccgtgatgc taccagccta cagcctgtcg 240

aaaatggtca tcaatctgta caccaggatc atagccagga ggtatccgga gatgcgcac 300
aactgtgtgc gaactggatt t 321

<210> 53792
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-012-Q1-K1-E3

<400> 53792

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tcgaggggggt gctggacaac ctgggtcgtc tgagccagca gcacgggctg tcaagcaagg 180
gcgccaacga ggtgctctc gtcacgcagg cctacaagac gctgcgcgac cgcgcgcct 240
acccggccag cttcatgctc ggccagctca ccggtccta cgccttcgtc ctcttcgaca 300
agtccaccaa ctccctgcta gtcgcatccg accccgaggg caaggtgccg ctcttctggg 360
gatcaccgnc gacngctgcg tcgccttctt cgacgacatc gacatgctc 409

<210> 53793
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F10

<400> 53793

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agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggggcggc cgttttaaag gaccaagtt tacttcccct tccttgcaac ttcataactt 180
ttttttaggg tcacctaaat taaattcatt ggccgtcttt taacaacgct gtaactggaa 240
aaaccttggc tttaaccaat ttaatcgctt tgaagaaaat ccccttttcc ccagttggct 300
taataccaaa aaggcccga ccatcgctt ttccaaacag ttgcccaccc taaatggcaa 360
atggaacccc cctctgaacg gccattaaa ccccgcggtt tttggg 406

<210> 53794
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F12

<400> 53794

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aaggaaaatt aaaaaaaaaa aaaaaaaaaa aaaaaaaggc cgtccgtttt acaggttcca 120
atcttccttc ctccagcatg caacgtctta cttcttctat agtgacacca aatttcaatt 180

<210> 53795
<211> 359
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 53795

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aatcgctgct gtccaaggcg gcggggcggg ccatcaaccc ggtgcacggc gcggtggggc 120
tgcttgggca cggggaactg gcacctctgc caggccgccc tcgacaccgt gctgcggggc 180
ggcgccatcg gcccgtgcc ggagcttggc gccgggacgg gccacctgta cgggcccccc 240
gncgncaccg acaagcgcg cggcggtggt tccaccttct ccacggcgaa gcgggcgcg 300
aaggccgncg ncggtgccgg ggcgccgcc gcggcgagg cggcggcgta ctgcgacct 359

<210> 53796
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-F9

<400> 53796

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gctttcctga cgttcgatgg ggctctgaac gttgatgtga acgagttcca gaccatcctg 120
gtgccctacc ggaggatcca cttcatgctt tcgtactacg ctccactcat ttctgctgag 180

aaggcctagc acgagcagct gtccgtggct gaaatcacct acagcgcctt cgagccattc 240
 tacatgatgg ccaagtgcta cccccgccat ggcaaggaca tggcatgctt gctcatgtac 300
 cgatgcgatg tggctcccaa ggacgtg 327

<210> 53797
 <211> 106
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G1

<400> 53797

ggttcggaat tcccgggtcg acccacgcgt tcgcccacgc gtccgggtcc ccgagtacct 60
 aatgtgatat caagactcaa ttctcgaatg gaagatatat gtttgc 106

<210> 53798
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G10

<400> 53798

tcaatgacct cggagattga gaatgggaag gaactggagg acgaattggc caggacgcat 60
 atcaatggag acagcagtgg ccggaattgc agcggggacg acaaggaggc gagggtgcca 120
 cttccctggg agctgctcca gccagtgatg aggggttcttg ggcactgctt gcttgccccg 180
 ctgaaccac ctgaggtgcg tgatgccga gcagacgcag tgagggtcgt ctatgcccg 240
 gcatgccacg atcttggtggc acaggcaatc ttagcatcac gaagcttgat tgagcttgac 300
 aagagcgcac gaaaggctgc caaggcagca gctgctgcgg cttctgggca aattgttgca 360
 gttggcactg ctggaagcaa tgcataagc tc 392

<210> 53799
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G12

<400> 53799

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 tgtgtgtggg gtgtcaatgt ttttaagggt ctcttgggtgt gtgtgtgtgt gtcattgttt 120
 ttaagggtgtc gccaaaggcg ccaaaaatca taggcgcctt gctcgcctag gcgccagtc 180
 gataggccaa cgtcttatct cgacttatgc tttagaacc atggtttgtg tatgctacgt 240
 tgctactatg gattctttgc ctgctaggt ttggaataaa aaaaataaca ttac 294

<210> 53800
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G5

<400> 53800

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 gcgctgaggc gcaagatgca agttgagaag gcagagaaag aacagcaggc tgaagcgatg 180
 aggaagatac tgggaataga ttctgagaag aaaaaggaag agaagaagct gaaagaacga 240
 gaagagaggg aaaaacaggc aagattagaa gaatacatga aaaactgcgt ccagactgtc 300
 atgggcccaa ctgggactgt gattacattc cctgagagca tggggctttc gagtatattt 360
 aactccaaac ctgtcaacta t 381

<210> 53801
 <211> 151
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G6

<400> 53801

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 atcccgaat gaacttttca tttaaaagg agaaaaagg ccctattccg ctgcttgatt 120
 cagactacca atttctgaaa attattttgc a 151

<210> 53802
 <211> 213

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-G9

<400> 53802

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 ttacccgatt gtgtgtgtac tagcacatct cttcatcatg ggagatatgt taccacaata 120
 cttgttgcac actgtgctaa gtggtcagga gaaccttgta ttaattaatt atcctttcat 180
 tgtctcaaag taaaaatttc ccttgcgcta aaa 213

<210> 53803
 <211> 63
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H4

<400> 53803

aaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaggaa 60
 agg 63

<210> 53804
 <211> 198
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H5

<400> 53804

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 ctttctagca tgagaacctg agctgtgagg tgtgtggtac aggattttcc tccgtcgctt 120
 cttctatctc cattcttact tggcttgctg agttgcccgg cgagcctgac gaatcgatct 180
 gagcagcacc ttgctggt 198

<210> 53805
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-012-Q1-K1-H7

<400> 53805

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cccacgcgtc cgcccacgcg tccgcccacg cgtccgaaaa aaaaaaaaaa aggaaagaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aagggggggc cgtttttaaag gatccaagtt tacgtacgcg 180
ggcatgcaac gtaaaagctt tttaataggg gcacccaaat taaatgaacg ggccgtcgtt 240
taaaaacgtc gggactggaa aaacctggg gttaccaaac taaatggctt agaagaaaat 300
cccc 304

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<210> 53806
 <211> 201
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A11

<400> 53806

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taaataaaaa aaaaaaaaaa aaaaaaaaaa gagaaggaaa aaaaaaaaaa aaaaaagggc 120
ggacacttct agaggatcca cgcttactta cgcgtgcatg caacctcaaa gctttactat 180
agtgttacct aaattcaata t 201

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<210> 53807
 <211> 467
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 53807

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gcgcgggtgc tggagcagct gctcgacgac gcgccgttcc cgcgccggat gcgcttcctc 120
atgctgcgga gcctcccctt cgtgccgccg cctctgcccc cgccgccgcc gccgcacgcc 180
ctccacgtta ccacccgagt ctgattattg gctccatttt tctcaggggt ttcagcctac 240
tgcccgccat ggccgcccac ccactagcct gcgcttgaag cagctagtag tagatactgt 300

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aggttgacca gtgatccacg gtgtgtttct cgcttttcctt ttgtctgttg atttctattg 360
gctatactac acggtgctgt aaaggatcaa ttagttctgc ctttgaggcc ctcatttggg 420
ggtaatatatt ttgattacat ggaccatgga aaaaacttnt ccttgac 467

<210> 53808
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-A4

<400> 53808

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gtg 63

<210> 53809
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-B1

<400> 53809

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cgggatcagc ggcgcgccgc acgacaacaa catcatgctc tggaacgccg tcatattcgg 120
gccggatgat acgccgtggg acggtggcac gttcaagctt accttgcagt ttacagaaga 180
ttacccaaac aagccaccaa ctgttcgatt tgtctctagg atgtttcatc caaatatata 240
tgctgatgga agcatctgtt tggatatcct acagaaccag tggagtccta tatatgatgt 300
tgctgcaatt ttaacttcta tccagtccct gctgtgtgat ccaaaccxaa actcccctgc 360
aaactcagaa gcagcaagac tgttcagcga gaacaaagcg gagtacaacc gcaaagtccg 420
tgagatcgtg gagcagagct ggaca 445

<210> 53810
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C10

<400> 53810

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cgcaagggtga gcgatgcggc ggcggcgggc ggcgaggtgg aggagaacat ggcggcgtgg 180

ctggttgcca agaacaccct caagatcatg cccttcaagc tcccgcccggt cggcccttat 240

gatgtccgcg tgcgcagtga ggcagtgggg atttgccgca gcgatgtgca ctacctcaag 300

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<210> 53811

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-C4

<400> 53811

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aaggtttatt atccaagctt acaaacacaa tcatgcaaca tgctatctac ttccatatac 120

tcacctaaat ccaaattact gtccgttgat ttacaacttc aaacctggga aaaccctatc 180

cttaccacaac 190

<210> 53812

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-D11

<400> 53812

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ggaagagcct gttgtggctg ctgcttcaga agttaagaag aagaaaaaga agtctgacgc 180

tgatggtgag gatgtcgcaa tgcaaaccga agaatacagg aagaaagaga agaaaa 236

<210> 53813

<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-013-Q1-K1-E10

<400> 53813

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gctgagttca tctccaccct catcttcgtc ttcgccggcc agggctccgg catggccttc 180
agcaagctga ccggcggcgg cccgacgacc ccggcggggc tgatcgcggc ggcggtggcg 240
cacgcgttcg cgctgttcgt ggcggtgtcg gtgggcgcga acatctncgg cgggcacgtg 300
aacc 305

<210> 53814
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E6

<400> 53814

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acacttgtag tagaagtaat acagaataaa taatgtgogc gacctttttc ttctcataca 180
ctgtagctta gaacagccaa tgaagaagca attgggttgt ttgaacttgt tatgcacgcg 240
ggagtattca ctttgtgtga aaccacttgt tatgcaatac caaacgagtc ctggctgcta 300
aaa 303

<210> 53815
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-E8

<400> 53815

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gcaaatgcaa atcgagttgc tcaaactcaa tactcctact agtaaaagta atgatgagat 180
agatttgata gatgggtact cgaatatgct acagtacaat taatgcatct caggcgatca 240
agcagtaatt aaaccgaaat taatttaagc atccccctctt tgatcgaaaa acagaatatg 300
atgatataaa aaaaaagaat g 321

<210> 53816
<211> 81
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-F7

<400> 53816
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gaaaaaaaaa aaaaaaaaag a 81

<210> 53817
<211> 66
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H12

<400> 53817
aagaaaaaaa aaaaaaaaaa aaaaaattta aaattaaaaa aaaaaaaaaa aaaaaaaaga 60
aaaagt 66

<210> 53818
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-013-Q1-K1-H4

<400> 53818
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ggagcccggg ttgccgacca ggttccaccg ttccagagta gccaaagcgaa tcccgtgtct 120
ggttcgcgcg atggcggagg agcagtccaa cccccagcac cagcaagcgg aggagaggga 180

ggttatggtg gagcagcagc agccgaggag ggccccgaag ctgaggtacc tggacttcgt 240
ccaggtggcg gctgcccgagg ccgcggtgtg cctcgtctggg ctctacggcc tcgccaagga 300
ccacgcgggc ccgctccgtc ccagcgttga cgccgtcgag tctgccgtca agggc 355

<210> 53819
<211> 473
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 53819

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ctgggttaga tgaagatcag tcctcaaccg gtaagagtgg ggactcatca ttttttgctg 180
gtttcttgaa gaagggtttc aaggaccttt ctttattaaa taagtccatg gatagcgtta 240
aggtttcaat taatggatcat ccaatctctg aaagagccct taagaaggca gagaagaaag 300
ctggtcctgt tgaccaggt tcatattggt acgactaccg tgctgggttt tggggtgtca 360
tgggacgaga atgtatcggc attgtccctc catttattag agaanttaat tatccgatgg 420
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<210> 53820
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-014-Q1-K1-A11
<400> 53820

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gtggaggggtc accggcgggg agagatagca ggctatgcct gagcaciaat gtttgatata 120
atccgtccca cgatagcaag aaaatgatac gcgatttctg agcacaaact tttgcactca 180
gatgatcgtg caaacagtta gcattttaag aaaaatgttg cagttcaatg taactgcagg 240
aatgtctctg atgtagcctc ttcgatgtgg cagccttaac aatcgatgtg ctacagttac 300

tctgcctatg tatttactat actaccttgg ccttgtatat ccttttgatg taagcgcagc 360
 tggatgctga acccccgcga ggctgttagg gacaattaca aaccgtcata atttggccca 420
 gata 424

<210> 53821
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-014-Q1-K1-B10

<400> 53821
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 gctgtctcca tgctacgaag ccggcggctg catcgggaaa cccaagaagt caccgccgcc 180
 gccgagaagg ccatacctct cgtcctattc cgaggaccac cagaactgcc gcttgatctg 240
 tagctcgaag ggtttcaagg acggtggctg gtgtgacgaa agcgtcgagc acaaagtgtg 300
 ctgctgctcc cattagaaat ataatatcgt atgttatgtt gatgcatata tatgcattat 360
 ccatctacct ggggtggtgca aaattctgaa ataaatctac ctgtgtggtg caaaattctt 420
 aacc 424

<210> 53822
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-014-Q1-K1-B9

<400> 53822
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 atattcaatc gagaaacact aaatcaaata cgattggcac gtcattttac aacgcacgca 180
 ctggcgaaaa ccaactggcag tatacccgaa cttacattgc ctttcaccac tattccccctt 240
 tcgccag 247

<210> 53823
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-E12

 <400> 53823

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 cacctaaatc tgcggcccg ctagagaaga tacgatctct atgcagatta gctgcagcga 120
 tatatataga tggatgaatc gtgcaagcgg ttgaactatg gtgctggaat ctgtaatata 180
 tataagcgga tcatccaaag tgcaaacat ataagttttg cattgccaaa aaaaaaaaaat 240
 taaaaaaaaa aaatattaaa taataaaaat aaaataaaaa 280

<210> 53824
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-F10

 <400> 53824

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 acttgtgcta ggaaaccttg ctgcctactc tcagcaacag cagtttcttc cattcaacca 120
 actggctgca ttgaactctg ctgcttattt gcaacaacaa ctaccattca gtcagctagc 180
 tgctgcctac ccccagcaat ttcttccatt caaccaactg gcagcattga actctgctgc 240
 ttatttaciaa cagcaacagc taccaccatt cagccagcta gctgatgtga gccctgttgc 300
 cttcttgaca caacaacagt tgttgccgat ctacctgcac gctgcgcta aagcttgcac 360
 ccttttaciaa ctgcaaca 378

<210> 53825
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-014-Q1-K1-H10

 <400> 53825

 tccggttcgg aattcccggc tcgaccacg cgttcgccac gcgtccggtc ctcagcgacg 60

gtccgggccc aagttctctg gaaagggacg cctgggaggg tgagagcccc gtccgggccc 120
gccctgtcgc accacgaggc gccgtcaacg agtcggggtg tttgggaatg caccctaaatc 180
gggcggtaaa ctccgtccaa ggctaaatac agacgaggag acactctaaa ctcaaacaaa 240
tacatatatt gtcggcatta gctcttacc ttttcaccca tgatgacgaa gtgccagaag 300
cgcgcgagca tccaaggact ttggctcctt tccatgggtc ttctagcgtc gtcctctctt 360
gtctgtgcaa gcatggcggt agatgggcaa accaaagaag acatcaacgc aacgagtg 418

<210> 53826
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-A5

<400> 53826
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catattacag ctgcacagga gaggacgagc gcaggggcca agaaagcacc gcccgctccg 120
gtctgtcggg atgggtggcg cgatcgcggt ggcgtcgcg gggctcggga tgctggcggg 180
cgtggccatg gccaacaggt cgttgctcgtc gtcgtcgtgc gacggcgccg cgcagtggac 240
gtccggggggc ccg 253

<210> 53827
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-C10

<400> 53827
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cttttctca tcggtatcta gggaccccg taaacatagt gtttgatggc accattcctc 120
tactaaatgg gggtgaggca ttgaaggaac aagtggccat ggatccctgg cgggtctccc 180
agtcccatth gacgatgacc acatcttctt catctctaga ctcaagctca ccagaatcaa 240
tgaagcggat gcgggaaagt ggggatgaaa ttccaatcac aagggaact gattgcctac 300
aaagtggaaa gctctgtgtg cagctgaaaa tgttcaagca cagagatgga gtgaatgccg 360

acgcaactaa tgccattttt cgctgacgaa aacaaaactt cgcttgggtct tcatattgta 420
 caaagtaaca aagaaacatg acttgtttgc 450

<210> 53828
 <211> 148
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C12

<400> 53828

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 ccaagctnnt gtatgcaagt ctttgcgcat tagnatnngg gaagaaaaag gggaagtcag 120
 gggggcaatg cgacagcann natctgga 148

<210> 53829
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-015-Q1-K1-C3

<400> 53829

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 ggccaatgca gatgcctgca ctactaaag gcgaacttaa ataggatact cttgcatact 180
 cacaactggg cagcctcctg gataagaaat caacgtagat acctgactcg tgactacctt 240
 catgagncgc gaaagaagca aaggagtatg gccttattga tggagtaatc atgaatcccc 300
 tcaaggccct tcaaccactt ccagcttcca gttagtcatg aagtgtgcta gaactccgtc 360
 aaacattttt gttgtatcaa tgtgtctgtt ggaaaccctg gctacgtaat attctacgtn 420
 caaatgca 428

<210> 53830
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D11

<400> 53830

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tcttgcacct gcgcccgaat cggttctccc acctctatcc gaagatgagc agtggaatct 120
gtacaaatgg attctggaag aggagcggaa gatcaaacca ccaacgccac tgagaagaag 180
aagatcgacg aggagaaaagc tcttctcaag gagataattc gggacaaatc tctccctcgt 240
ttgtgatggt tacatcggtc gtccttctga tcttgatttt ttttcttctc tctccacctg 300
cagtccattg aggacaacat ctgaaactat gtgccctggt agtttagcaa accgttagca 360
tttctttgca ctatcacatc tcttcatttg acaataagaa ggtcgagttg ttttgctctg 420

<210> 53831

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-D12

<400> 53831

aaaaaaaaa aaaaaaaaaa aaaaaaatTT aaaaaaaaaa aaaaaaaaaa aaaaaaaaag 60
aaaaaaaagga 70

<210> 53832

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E1

<400> 53832

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aggatgagct ttatctgaac gtattggtcg aatatgtgcc ctagacagtt catccagtcg 120
tgaagcatca caacaagatg aaccaacgca tgccacttat ttatgtgaag ctgtatatgt 180
accatatatg tatggcattt gcttacattc atggcactat tgctgactgc cacagagata 240
ttaagccaca aaaccttttg gtgaaccac acatctacca gcttaaacta tgtgactt 298

<210> 53833
<211> 126
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E11

<400> 53833

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cgttacgtag cgcacatgac acgacgatga tagcctcttc tatcagtgac aactaaatt 120
caatat 126

<210> 53834
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E12

<400> 53834

accggcccgg aattccgggt cggccacgag tcggcagcgc tcgtctcgcg ccacgccttc 60
tcagctaact gggagcactg ggggaggaca tcgagccggc tcgctgacct cggcgtgacc 120
gacccgtcgc tgcgcgaggc ggcgcggatc ctccgcctga ccccggtcgc cggctgggtcc 180
gctcgagtgc tccggggggc actggcggca tcgcacccgc atttggccaa caccaagtcc 240
tggcgtatcg tacc 254

<210> 53835
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E5

<400> 53835

taccggtctc gaattcccgc ctcgagccac gcagtcgcga cagctattgc tactatcgtc 60
tactttctac atcttttagt taccacttat gacatagtca catttataga cttgtcatcg 120
gttacaattc acatactaga atcatgttag ctctactacc tattcttggt aaataattct 180
gacccctttc tacacataat catcacttct gagttctata ctgttacaat gttcgtatac 240
gctaaattca ctttattcac atataatttc cctaaacttt 280

<210> 53836
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-E9

<400> 53836

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aaaaaaaaa aaaagggccg cccttttaaa ggatccaagc ttacctacc gtgcattcaa 120
cgtcatagct tttttatagg ggcacctaaa ttcaatt 157

<210> 53837
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H10

<400> 53837

tccggatcga cccacgcgtg cgcggacgcg tgggcggaag cgtgggctgt ctccagttga 60
cagcaccatc cagacgatgg atgcgtgagc ttatgggctg aagacctggc tcaaggctcc 120
tacataccag acagacaatg tgccgtatgt gtcagatgaa cctcaaagcg ataagtgggc 180
tagggttcta tcagatgcca cattcgacgt accaacgaat cctgacatcc tacttaatgc 240
gttcgactca gctgcaaagc ttcaaccgga gaaggtaaca gacatatgga atctcaggag 300
aataactaac acgtcttggc ataccatcaa aatccagaga tcttcgtgcg tcgaacgata 360
taagctgtga aattaagtac gcacttgacc acttgataa agcacactta c 411

<210> 53838
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H3

<400> 53838

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gtcctgcatg gaaactgccg ccgtggccgc ctccagtgcc gggcgccgca tcatgggtggc 120

cgtggacgag ggcgaggaga gcctgcacgc gctcaactgg tgccctcgcca acgtcgtctc 180
 cccggcagga ggcgacacgc tgggtgctcgt ccacgcccgc cgcccgcgcc cgggtctacgc 240
 cgccatggac agcgcaggggt acatgatgac ctccggacgtg ctggcgagcg ttgagaggca 300
 cgccaacgcg gtctcggcgg cggcggtcga caaggccaag cgcgtctgcg ccgaccaccc 360
 gcacgtcaag gtggagacga cgggtggagag cggtgacccg cgggacgtca tctgcgacgc 420
 agccaacaag at 432

<210> 53839
 <211> 54
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-015-Q1-K1-H7

<400> 53839

accggttctc aattcccgt cgaccactc gtcccaaaaa aaaactataa caaa 54

<210> 53840
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A10

<400> 53840

accggtttcg gaattcccgg cgggagccac gcgtccgatt acctcttcac tagctccaga 60
 gggatatgga agcttgatca tctttcctta tggcgcgat caatagcatc acaatcaccg 120
 cgcttctatt gtctgatgcc attctgtcct cactgtctac atgctacgaa gccggcgtct 180
 gcatcacgaa acccaagatg tcaccgccgt ctccgagaag gccatacttc tcgtcctatt 240
 ccgaggacca ccagaactgc ctcttgatct gtacctccac gggctctcaag gacggtagct 300
 gatgtaacta aagcgtgtag cacaaaatga gctgctcgat ccattagata tataatagcc 360
 tatgatacgt agatgcatat atatatgcat cgtccatcta catgagt 407

<210> 53841
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-A11

<400> 53841

cacgcgtccg aaaaaaaaaa aaaaaaaaga aaaaaattaa aaaaataaaa aaaaaaaaaa 60
aggaaaaaga aaaaaaaaaa aaaaaaaaaa gggccgccgt tctagagggt ccaagcttac 120
gtacccctgc atgcaacctc atagctcttt tattgggaca cctaaattca att 173

<210> 53842

<211> 238

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-A9

<400> 53842

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tctacttaaa aggggacggg ggagcacctt agatggtcgg aacgggaaac attctctggc 120
agtttgacaa attgtagttc tgcaccctct ttttttttgg tagtttataa gaaacacttt 180
aatattatcat catgtacttt taacaacact tggggatatgg taagtgcatt tggtgctg 238

<210> 53843

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B1

<400> 53843

aaaaaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggtcggacg atatagagga 60
tcggagctat catacgcgtg cgtgcataca tcatagtctt tctaataagag tcacctaaat 120
ataactcact gaccttaaat gc 142

<210> 53844

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B10

<400> 53844

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ccgtggccaa tgcaaacaat tgttttgtgg gagcggcggc cgttaagttg ttgtcagtgt 120

gagagtgggtg atgcgatcat gatccttttt acctagagta gctccccttt gtgttagcct 180

gaacgatgtt ttgcaagccg aatgttccga actctaggat tatttggtt acaaaactta 240

catattccat cctcaaaaaa aaaatagaat atgaaaaaat aaaacaaaca ttgggcaatc 300

gttctagagg atccaaacta tctacgcgt ttatgtaca tcatagctct tctatggggt 360

cacataaatt aaatttactg gccattgctt t 391

<210> 53845

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-016-Q1-K1-B11

<400> 53845

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agcgagtttc aagagttgta cacataagat ggcaacagag cagttattca aacagataag 120

aacagtagca ggcaggagta caattgtaca agtactagta acaaaaaaaaa acgatctgtg 180

acaaagacca aattgattga ttcatacataa tttcggtagg ccgcaactta ttttgagaca 240

ccgtcgacat caagtaggtg cagtaactct tagtcctaac tccagcttac ttcttcatct 300

ccgcagaggc tcggctgcat aagctgatct ttccctcatg cagcagcttt cgacgcaatc 360

attcctgtct tccgggcgta ggcaaagatc cctcccgnc t caattaca 408

<210> 53846

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B3

<400> 53846

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cagtaaagcg aaactgagtg gaatgtcagc aatcaaagaa catccggtag cggcctttca 120

tctcaccaga ttagagctgc aacccttcaa tgttgtactt gtcttgaatg tggtaagggtt 180
 caattacgcc cgctgtgaaa cagaacggaa cagagcagat ttaccgcga ttgctagcta 240
 gagtgatttg gcatgatgta ctcatcatatc gtctgaagat ttactggga aaaaaagtac 300
 aaacttttcc ggtggaaaag aacctaaaa 329

<210> 53847
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B5

<400> 53847

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 actatctcta cgtccttatg gaagctgggt caggtaaact catagctgcg ttgaacagca 120
 gcacattcca cgagctgctc acatctgatg gcattctatc cttactgtat acatgctaca 180
 acaccagcat gtgcatcttc aaaaccccag aatctacctt caacaccgag aaagctatac 240
 ttatcacccct atttctaggt ccatcataac tgccgcttga cctaactcat ttagagacac 300
 aatgaccatc aattatgtgc cgaaactctt aatcataact ccagctgact ttttcattaa 360
 caatattatt tcgtttctta agctgaccc ta 392

<210> 53848
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-B9

<400> 53848

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 agaaaaaaaa aaaaaggcaa ataatatagg gaaaaggaaa attaaatagc cgagcattcc 120
 acaacatctc gtgctctatt gtgttaccgt aaattgaatc aactggccg tcatgttaca 180
 acgactacta ctgcgaaatc cttgacatga cccaaattca tcgcctggac acaaattccg 240
 atgcttatat ctgtcgtaat gtcaatgatg ctggaat 277

<210> 53849
 <211> 65
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C1

 <400> 53849

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagga 60

 aaagg 65

<210> 53850
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-C6

 <400> 53850

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 aatagcttaa ttatgaacca acctataaat acatttatct ttttagaaca aaacaaaatt 120

 acatacacat aaatgtcatc ctatatctat tatataagct cacctaaact taatttattg 180

 tccatatttt tacaacattt ttacttgaat atccttgact ttaccaaatt taatatcttt 240

 tcacatatta atctttttta catttttaatt tatattt 277

<210> 53851
 <211> 52
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-E1

 <400> 53851

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 52

<210> 53852
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-016-Q1-K1-F12

 <400> 53852

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ccgagagagg gaccgggcag aatcccacgg ctccggaacga cttcgagttg gcatgggttg 120
tgcgcgcagg catcggtga catcacatag acaatgctga aatgctgttg ctagtgctct 180
gtgctagcaa cctgaatggt gaccaagtgg caaccatatg ttttcacca atagggagat 240
ggccctaccg gtgtcaccgg aagacgtctc tggatctaca agcctggcct tcatgggtta 300
catgtacatg cactgggaga caccaccaat ggatgcatgt caacttgacc aactacact 360
actgctagca atgagcatcc ggcaccatac gatgagaacc gccatgctgg tgatcatggc 420
aacgagacag cttgagcata tggagctgct tgtatc 456

<210> 53853
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-G3

<400> 53853

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acacgtcaac tcttacatat atatatgtat gtatgcataa tgaattacct ggtctgcttt 120
ccgcaaaaaa ggacgccctt tgttgatcat gtacatgatg ctgtaccctt agttttcctg 180
aagtgcagac cagagaagag aacattgaca ttagattgta gctgctaagc tgtatggtaa 240
ttacagtttt ctttaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa 300
aataataaaa 310

<210> 53854
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-016-Q1-K1-H1

<400> 53854

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ggctgggtcc gcgctggtgg agtactacga ccaccagcaa gggtcaggat cgaaagttca 120
ccaatatgca aagcagttcc tttcatctga tagcaatagc ggccaacaaa aggagtagct 180

agccagtgtc cttgcgaagt gcaagcagcg gagtgggctg ttttctctga tcaaataatt 240
 ttgcctatgg cacattctgt ggaaactttg acggatcttt gcctgctttt ctatgcgatg 300
 taagctgctg aaacctgcac tcatcaaatg ttgtgtatgc agatgggtacc atgcatttgt 360
 ttccctgaat ggcttcaaat gaaatgaatg ttttttttta aaa 403

<210> 53855
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A3

<400> 53855

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 tgtggcgagg tcagggttcc ggcgcatgtt ctccgtctct gccttcgcgc cgccgaaggc 120
 gcccgccgcg cgcccccaagg ccgaccatc ccccaacctc ttcgtctccg gcttaagcaa 180
 gcgtaccaca agtgaaggac ttagagaagc ctttgccggag tttggtgaag ttttgcgatg 240
 tcgagttgtg accgatcgtg tcagtgggtt ttctaaggga tttgg 285

<210> 53856
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A4

<400> 53856

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 cagctccaaa acagaaggat ccatcaaagc catcgaaggc gtcaaaggcc ataggattgt 120
 tttctgctc cagccctgca aagccacata cgtcaatcag aacttctcgc agcagggtgt 180
 gctccgcaat ggtgagaagg tcacgttcga cgagcctaac ccgtttgcca ctgaagggga 240
 ggaagctgct tccgttgctt accgctaccg tcgctggaag cttgatgagg agac 294

<210> 53857
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A5

<400> 53857

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agctgcgagt ggctagcagt tatggcattt cttgtttggg tggcatcgtg gatacttctt 120
cggctcgtta tgttcccttt ctggatccta agaagcacia gctatgaagt gctgctgacc 180
ttggataggg agaagcatcg attttatggc cccatatact actatgtttt caactgtctt 240
ctgttctcac tcttagttct tcacatatac tgggtgggtac tgatatggcg gatgctagtt 300
aaacagattc aatcgaaagg gcgtggttgg gatgatgttc gatccgattc tgaaggcgaa 360
gatgagcatt gagattaact ttttaggttg aatgattaac ttgagaacta cattgtgtga 420
tacctgcagc aaggcacacc ttctgaacct tttttttttc ttttacagaa gat 473

<210> 53858

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-A6

<400> 53858

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ttctgcctcc agccctgcac tagaggctgc gatggcagct gctgtcaagg tggctgacgc 180
ggaggcaaaa gcacatgatg cgcacatgatc gacgatggag gcagaaagga tcttcaagat 240
ggccgaggat accgagtctc tcttcataat tgcagcagag atctatgac gatgttcaag 300
gggagagata acc 313

<210> 53859

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-B1

<400> 53859

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cattgaggac aaggacacga tcattgagat aacgggggtc caaaacttgg gcaagtcatt 120
atctacacaa cattgtgaca cgcgagcga tagatcatca tcgcgcggtt ctagacttta 180
ctggcatgag ttcattgcga ccaaccagtc tttttgagag tattgagacg cttgcatagg 240
ctgtcgagcg attaacagag aaaaggctat atatctct 278

<210> 53860
<211> 137
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-D6

<400> 53860

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gtctctgacc acctgcgaaa gatggacggg gagctcgccg tgatttgacc ggtcactcag 120
gattggcaac cgctcgt 137

<210> 53861
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E12

<400> 53861

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tcagtcacct gcgccgccgc cacgttcggg gggggcctcc aatacgggga gttcaattga 120
ccgacctcgt tcttctggac aaggtctact aacgtattaa catttccgcc gtcaacaatg 180
actcttcggt cacacactat gatatttttc aacacaatgc tattttcgct cacttgcagc 240
actttactat ctatgaccag ttg 263

<210> 53862
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-E5

<400> 53862

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at 62

<210> 53863
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F11

<400> 53863

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aaaaaaaaa tctaataaat acaggttggg tactaacatc aagaaagaca catcacatat 120
aagatcatct gactaaactt gagtggcccg ttcttaataa cccaagctac tgttaaatct 180
cttccaagac caaacttttt caccatccac ctcatatctc attacaccgg cgatcttttc 240
aaacctaagt tccttaaaaa accctatcgt ttccaatttt accactttta tgataaatgc 300
tattttcctt gtgtgccac attaaacata ggccc 335

<210> 53864
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F3

<400> 53864

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aaggaaaaca atcctgaaac caagccatgg gtctggggga ggaatttgag gagcatgctg 120
agaaggcaaa gaccttgctt gagagcacga gcaatgagaa caagctgac ctctacgggc 180
tctacaagca agccacgggt ggagatgtga ataccgatcg tacgttcata ttctaccata 240
aggacatggc caaatgggat gcctttaatg ctgttgaatg caaa 284

<210> 53865
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-F9

<400> 53865

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ggaaggtgca gagttgatgt gggcgtgatg tatctttcta agttattgta agccggtctc 120

tgtcttcaca actgacgata tgtgtgtggt acgcaccacg cacgcaagtc gcggttgtgc 180

gtgtacgtct gaactctgga gcattggttt gttgtaccaa cataatgagt cacaacggcg 240

gatggctggc tatacgtaaa aaaaaaaaaa aaaacgtaca ataaatttt 289

<210> 53866

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-G3

<400> 53866

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cgatcttaga tccactagag actaaaatcc tggctctggg ggggcgcctt catcggggag 120

accctcacca cctcgatctt cctctacatt gccattctca ccgccacagt cgtctccaag 180

tccacctcca actgcgccac cgatggcatc catggcatcg cctggtcctt catctgcatg 240

atcttcgaac ttgtctactg cacca 265

<210> 53867

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-017-Q1-K1-H4

<400> 53867

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tcgaggtacg atgtacctgg cactcgagta tcatggatga gactgttggg cgtctattca 120

aaagtggact aggtagattc gggcttggac agtctaaacc agccttcggt gatcaatctg 180

ttcttatcat ttttgttctt ggaggtatta atactcttga ggtccgggaa gtcatgacag 240

cgatatcgga gagcagcaga ccagatgtgg agcttattct ggggtgggaca acccttctta 300

ccccagacga catgtttgag ttgatgttgg gatcgtcaag ctttgcttag gctcaacctt 360

cactcttgag tcatgtgcgg gacttggaaa gaaatcggag cataatcttt tcttattctt 420
 cagaatagtt acttgtctga tgtagcagaa gcattcagac ttggaagagg atactaccag 480
 aagaaag 487

<210> 53868
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-C10

<400> 53868

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 attagtggca taactcctga tatcatgggtg aagatgtggc ccaaaaatat gtattgtcta 180
 taaaacaatc cttctcaaca ttttggtagt ccccatgtga aacattttac aggtccctgg 240
 aaacttaaaa gtcaattaac ttttatgttg gagcttttca agaaaacat tttgctaaaa 300
 tgcattatca aa 312

<210> 53869
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-018-Q1-K1-D11

<400> 53869

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 gacacctggt tcgtgagatg ggttgtcaaa cttgattggt ttgttgtgcg tggctggaag 180
 agctgatagt tatatatttg gcttggactg tgccgcttgt atgtatctga attctgaaag 240
 cgttgtaatc tgagcatccg tgcaaagtat gaatggccct tttatatggg ctggattttc 300
 cggtttctaa aa 312

<210> 53870
 <211> 158

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-E9
 <400> 53870
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 aaaaaaaaaa aaaagggagc acttttttaa agataaaagc ttaggaacac ccaaattaaa 120
 cagcttggtt tttttatagg gttacctaaa ttcaatta 158

<210> 53871
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-018-Q1-K1-G9
 <400> 53871
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 caaagttttg tttgtgattt tggtcccgtg ctatccaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa gggtaaactg tataaaggat ccaaccttaa gcaacccaat 240
 tatgcaactg aataaatctt ttttactggc accaaaatca aattaattgg ccgtgggttta 300
 acaacatcta aactggaaaa accctggtgt taccaaacta aatacgcttg cactaaatgc 360
 cctttt 366

<210> 53872
 <211> 197
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-A8
 <400> 53872
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 agaaaaaaaa aaaaaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaggg gcggccggtt 120
 taaaggatcc aagtttactt ccccggtgctt gcaacttcac agcttttcta tagggtcacc 180
 taaattcatt tcattgc 197

<210> 53873
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B1

<400> 53873

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ctaaaggtct cacaagaatg gcggtcaccg tggcggtcac catcgacacc accatgaatg 120
acatagtaac tctgcagaac ctaatgacag gaggcaagta ctgaaagatg gccagagggc 180
ccttgaaggt gacagcgcat actgaagata tcccagcaag gtccagttaa ttgtccttat 240
taaggacatg aagatcattt ttttttcggt cctgatgttc tcagataatt attgtattgc 300
tgacaacata tctttgattt gtgaatatac taaacatggt gcctaataaaa aacaagggaa 360
caatgaataa gaaccaaa 378

<210> 53874
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-B5

<400> 53874

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cgttcacggt tgggtatcat tccggaggat ccgacactct ttcaaggaac cataagatat 120
aatctagacc ctcttgggca attctctgat caacaaatat gggagggttct aggcaaatgt 180
cagcttcttg aagctgtcca ggagaaggag cagggattgg actcacttgt tgtggaagat 240
ggttcgaact ggagcatggg tcaaaggcag ctcttttggt tgggacgtgc acttctaaga 300
agatgccgta tcttagttct tgatgaggcc acggcatcta tagacaacgc tactgatgct 360
atccttcaga agacgatcag gacagagttt agagattgca ctgtcatcac tgtcgcacac 420
cgtataccca ccgttatgga ctgcgatatg gtacttgcaa tg 462

<210> 53875
<211> 185

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C2

<400> 53875

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 gaggcagatg ctagecgttg tcatTTTTtca ctgtacgttt cttccttctg gttggtggta 120
 cgtgctctgc tgcaatttca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaac 180
 caaaa 185

<210> 53876
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C5

<400> 53876

gaattccccg ctggaccac tcgtccgttc aatcatctag acagcctcaa tatttccgtc 60
 aactatgccc aatc 74

<210> 53877
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C6

<400> 53877

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 cctcccccca aaactcaaat tgacgtagcg agaagcagaa gaggcgaaga gtgataacga 120
 acctctccca catcgatttc cccaaatcgc ctggcgcgat gaccacggca ggagaggtgg 180
 attcggcagc aggaggtgag gacctggagc cgctcttcga ctacaagcga gtgcagccca 240
 ggatgacgtt ctgctttgac gacagcgact tggaggtggc cgacatcttc aaatactgca 300
 acaagcggcc aaaggtccac acctccacgg aggaggagg taagcctgac gaggaggtcg 360
 ccgctgccaa ggtggtggtc ctcgatgagg aggatgggtt gcaaccaccg tcacc 415

<210> 53878
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-C8

<400> 53878

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tcactcactc tcttcgatca ctgtactgaa gagagcaggg ccaagtcgac cgggatgttt 120
gtagccgccc tggccctggt ggtggtgatg gcgacgacga gcacaggcgg tggcagggcg 180
gcagcgctcg gcgatcccaa gccgttggtg gtgtgcgatc cggcgttcat ggacggagcg 240
aaaccgcggg cagcatgctg ctccaccctg cgtgcgcagg atgcatgctt gtgcgtgtac 300
gccaaagacc ccaagtttgc aaaatacatc aacaaccca acaccgtcaa aacctttacc 360
tcgtgcgga tagccatgcc caaatgctaa gcaagcgctc tgcgtagtcg tttcgcttgc 420
tcttgctctt gtgtgtaaca t 441

<210> 53879
<211> 73
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D4

<400> 53879

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acaaaaacaa aaa 73

<210> 53880
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-D5

<400> 53880

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catgcaacgt tcaacaatgt tctgctgacc tattatgctc caattcgtga agaattcttct 120
gatgattatg ctatcatctt cttcaatcgc ttatggatta tcatcatgtc ctgctcgtctg 180

ctgcaccatt tactaacgac gttctgctgc taacgactct aggagtttgt ggtgtgacga 240
 cacttaatga atcctacaag atgcttggtta ccacattctt gtacgatgct catggaattg 300
 aaaatctgct gctaccaaca aaggattacc ttat 335

<210> 53881
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-D7
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 tgtccttgcg aagtgaagc agcggagtgg gctgtatttc ctgatcaaat aattttgcct 120
 atggcacatt ctgtggaaac ttgacggat ctttgccctgc ttttctatgc gatgtaagct 180
 gctgaaacct gcactcatca aatgttgtgt atgcagatgg taccatgcat ttgtttccct 240
 gaatggcttc aaatgaaatg aatgtttttt ttaaaaaaaaa tctatttaatt taatttaatt 300
 tttaaaa 307

<210> 53882
 <211> 139
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-D8
 <400> 53882

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 aaactaaaaa caaaaaaacg aaggttactt ataaaaacaa ggcagactat ttataatttc 120
 tagtttacc aaactttca 139

<210> 53883
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-019-Q1-K1-D9
 <400> 53883

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 atttgtgttg taccaaataa tgagttgaca tgccatcgcg tgtgactcat tattattaac 120
 aataaaacaa gtttcctttt atcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 acaaaaaaaa aaaaaggcgc aggggctgta ggtttacaag ttccaagctc acgtacgcga 240
 gcttgcaacg cttttatact gcgatacata aac 273

<210> 53884
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E2

<400> 53884
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 tactcaactt ttctctagtc caatccaagg tagtttggtt tattctcagg tgaatctttc 180
 cgtttgtacc gtcaggttgt gttgttcttt tgaacatttg ggcaatgata actaataatt 240
 caaggtcctt tacaagtaaa aaaaaaaaaa aaaaaataaa aaaataaata aaaa 294

<210> 53885
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-E7

<400> 53885
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 tacttcaccc caccctacct gacgcctata aactcactca tgtcataaca aaatacagtc 120
 tccaaatata ccttctcat tcatacaatt ctaatcttat aatcttttac acatacaacc 180
 aataattccc atatatataa acttcatata attttccaaa taccctaaac c 231

<210> 53886
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-F8

<400> 53886

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tttctttacg ctaataagtc cactctcaaa gcgtcgttca cctaactact taccgtcctc 120
taatacataa aacctactca attaatctgc aatactactt tacctacaat acaatcttaa 180
ccagctaact tattgatcaa atatcaccaa ttactcaaac tcatccatta aaattcccaa 240
ttttctactg aaacatacta tgatctgtat ataaaccaca taacattcac tactataatc 300
tcctgtatga tttctaacta ctgaattaca tataaatcac taactaatct actctatctt 360
accaatactc tcttaacatt tctcttctga ttttaacatta cat 403

<210> 53887

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-G3

<400> 53887

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gaccgtctga tctcctgtcc aaatacaacc tactaatcac tatcgaccaa catctctttt 180
atgccacggt ctacaccgga gcaaagttca ttttaccagt ggatccctac taataaagga 240
agatgattgc gatctcatct tgtggatcta tactaactcc ctactcactt tcgctacaca 300
tgatgtacac tcataataaa tgtat 325

<210> 53888

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-019-Q1-K1-H2

<400> 53888

aaaaaaaaa cataaaaaaa aaaaaaatta aaaaacaaaa aaaaaaaaaa aaaaaaaaag 60
aagggttaa aaaaataaaa agg 83

<210> 53889
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-019-Q1-K1-H7

 <400> 53889

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 tacaacgcta cagctgcctt tctcgccagc tgcaaggcca actcttacgc ttccctcggc 180
 acctacaacg ttgatgctgc cgccacacc tagagcctcc acgtcatgga ctacaactac 240
 tgactcccta ctctatgcgt tcccatttcg gaactcctgc ctacgatcta cgatctacga 300
 gtgaggcctg ctcccttatag cttattctcc gacatccaaa acacatgctt catatg 356

<210> 53890
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-B3

 <400> 53890

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 aaggagaagc accaaatgac caatttatat gttgagctac tagtggagat catgagggca 180
 cagaacaaca accaacadgt tgtgccaagt agcgtccttg ttaatgataa ccctgggatg 240
 ctgtcaaaaac ccatggacaa catgaaagtg attgaagggt atctaataga tgagatggag 300
 gccatgacga ttctagaaga acaaccaaata atgctgaatg tcattcataa gaaaaagagg 360
 catggagtga aattttggac cac 383

<210> 53891
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-020-Q1-K1-B5

<400> 53891

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cgagattgta aaaaacagca ttaccagtgt acgactgtac aacgctcatt tacaaggaca 120
attacggttc acaatttata cacacacatc atacaaaatc gctatcatac acaggcggttg 180
aggtgtacac gcgcaacgct cccgtgccaa cagccaggct cacgcgaaaa aaagcccttc 240
cacgatgacc gaaaaacaaa gcacatccaa atccatcccc aaaaaggga accgcgacat 300
gcgaaacctc tcaaaaacg 319

<210> 53892

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-B6

<400> 53892

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cgagattgta aaaaacagca ttaccagtgt acgactgtac aacgctcatt tacaaggaca 120
attacggttc acaatttata cacacacatc atacaaaatc gctatcatac acaggcggttg 180
aggtgtacac gcgcaacgct cccgtgccaa cagccaggct cacgcgaaaa aaagcccttc 240
cacgatgacc gaaaaacaaa gcacatccaa atccatcccc aaaaaggga accgcgacat 300
gcgaaacctc tcaaaaacga ccatccggac gttggacaca 340

<210> 53893

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-C10

<400> 53893

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atgacttcac aaacatcctt ccgaagaatt actgacgatt cgcgatctat catatctact 120
ctgttactgc aaatgatgtc caaacaacca ctatcttcta tatectatgg tccccatcct 180
ccaccaaggt gaacagcaac atgctttatg caagctcaaa ccataaattc aatattgtcc 240

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<210> 53894
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-E3

<400> 53894

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cggtcaccgc accggacgca caggggcgcc gtacgtgcag tcacgcgcca tgaaggtcct 180
cgctcgtgcc gtgctggcgc tcgtcgccgc cgacgcgcgc gccgcgcgc cgcccggtca 240
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cgacgtcgcg cagggcgagt ggggtg 325

<210> 53895
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-G1

<400> 53895

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gcatcgaaag catgtgcaat gcccacaaagc acattgctga agctaggaaa ggggtctcgtt 240
ttggacatga cacacttttt gatgccatgc ttaaagatgg actttgcgat gtttacaatg 300
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accatgatgc ttttgcta 378

<210> 53896
<211> 78

<212> DNA
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<210> 53897
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 <212> DNA
 <213> Zea mays
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 gattcatccg gtcctgagcc tatggttgaa gcctgagttc cagcggaagg ggacaatgga 180
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 tcatcatgta attatgagtt gccatcttgg gctgccactg agagggtgtg atttgggtcc 300
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<210> 53898
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-020-Q1-K1-H3
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 tcggctgccg tctcgctccg gggctggtgg gacgatgtca acgagtcgcc ccagtggcag 180
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cagctcgtca ggatccagcg ccgggtgccc gagttcggat ggaccacgca gaaagtcttc 300
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<210> 53899
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-020-Q1-K1-H5

<400> 53899

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actaaaaaac tatctacaac tccttaccac ttactcttc tacctctcct at 172

<210> 53900
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A10

<400> 53900

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agatggagat aaatatccca gaagattgtg ctgcattaac aggacagtta caaccttttg 180
tcaaagaaga agttttggtc cctgtattca atggaacttt tccatctact gcacagcact 240
tcttttagtat tcttttaagt gatgactcga actacataac acagtatcga acatttcaga 300
aggataaaga tataaatctg ggccaatggc acattgcaca tgagtatgat ggccaggcga 360
gggaacttaa ttgtaaatca atatgccata gtccaatgtg ccttccttat tc 412

<210> 53901
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A11

<400> 53901

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cgtgaggatg agaccctatc ttctatcaaa gaacgtatac agaaaaagct taaggttcca 180

aatgatgatt tctcaaagtg gaagtttgca tacatttcac tcggtcgtec tgactatttt 240

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<210> 53902

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-A12

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cattctactg caccaacgtg cgcgcgctct tcgaactcac tctctctac cacacccgaa 180

agggaagca taaggagcac tctcattca accgctccct agagtccggg ccgtacaccc 240

tcaacaaccc aatatccatg tggggctaca aaagggtctt tccgcatact actcttgaac 300

aatcacattt tcttaaagat gaatgcttga acataaactg tacattggca tgttgaata 360

tcaactattg attattctaa gccacattca atatatgttc cacactctga cataggcttt 420

cattt 425

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<212> DNA

<213> Zea mays

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<400> 53903

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cgcggcagac ggcacacaggt cgtgccatgg acgacgacgc cacggtcgga tcgcggcagc 180
gccagcagca gccgtgctcg ccggcggtg ctgattccag ggccatgatg gcggagctgg 240
acgcgccgt gcacgccctc gggttcgaga tcgaggagct cttcccgctc cggctcaccg 300
gccgactccc catcactccc atctgctg 328

<210> 53904
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B1

<400> 53904

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaagggccgc ccctttaaaa gacccaagct tacctaccg tccattcaac 240
gtaaaaactt ttttataggg ccacctaaat caaatt 276

<210> 53905
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-B7

<400> 53905

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tcttagaca acatttactg tctatgactt tggaactcca aagctaatac caattatcaa 180
tttagttctt ccagaccaca ctacatgtaa tcttgaatac cacctcctac atgaatatac 240
ttgtagttaa tgcaatctat taccttaatt ccaccctat ttttaacctt tctgattcct 300
ttg 303

<210> 53906
<211> 380
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C3

<400> 53906

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aagaacaata atcacgctga ataagtgggc cccacatcac aatcctgcac atgattttac   180
catcttattc ttaaaattat tcttgaaca attggatcta tatcattaaa agatccaaac   240
tttagatata taccatgaac cccacatgtc attgactcat gtggaccac atgtaagtga   300
gatagtaatg gtatggatcc aaagtgggtga tcttttaatg gtatggatcc aaatttccca   360
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<210> 53907

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-C4

<400> 53907

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aattctaact ctacataaga gcgcctcaca tcacaatcct gcacatcatt ttaccatttt   180
attcttaaaa tcattattcc atcaaatcta tctatatcat taatacatcc aaactttaga   240
tatataccat aaacctcaca tagtcattca ctcatgttga cccacatcta aatgagatac   300
taatggtatg gatccaaaat ggcaatcttt taatggtatc gatccaaatt tcccattatt   360
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<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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acaaaagctt gatcagcttg ggcctacaaa acctcaacaa cncaagttat gtctgatctc 180
gacgccagct tccatctgcc ttgatccgt tgctgagcaa atgctgagac tctgggtgctg 240
gtcctggaac gaagatatct gcatgtgctc atcagcagcg cncggcagac agagtctgac 300
tacagtgaag gtctgaaaaa gagttagctt cacaagatcc taaggatctg aaaaagaatt 360
ctgctgcaat ggtactgcag ttcaggaccc agagctaggg caggtcattc 410

<210> 53909

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E10

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gactactacc tatctaatac tcctatgcta aatctgtcat actaaagtat acgttctcca 180
taaaatccac acattttata tctcaagata ctctaataga tattccctaa atacaagctg 240
aatataaacc ttacagact tttaaaactga aacgtcttct tcaactgaatt actcaaccaa 300
gactcttatt atcaccattt aacgtattaa tcacattatt ccacaaat 348

<210> 53910

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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gaggcctacg gcgaggagct cctccgctcc atcacggacg agatctccgg cgacttcgag 180

agggccgtga tcctgtggac gctggaccca gcggagcgcg acgcggtgct ggccaacgag 240
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 tncgcgcaga tcttcgcgac caggcaagct tatcacgagc ggttcaagcg ctgccttgag 360
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<210> 53911
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-E4

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 cgtacaacgt gtgctgagtc gacgggtgct tcagctccga catcctcaag gccatggatg 180
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 actaccgcca cagcatacat gtgggcgctt tcagctccat ggagaagggg atcttcgtgt 300
 cctgctccgc gggcaatgc 319

<210> 53912
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-021-Q1-K1-H12

<400> 53912

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 tggctatgcc tggatttgct aaagcagtgg ttgatgttgg ctaggaagtt ggtgcggatg 240
 caagttgcca tggtttgact cggtaaagca gtgatcacga tcgcttttag cttacatttc 300
 tatgctttat aaacttgact taaagtgg 328

<210> 53913

<211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-H7

 <400> 53913

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 accatgtctg aatgacatct tcgttgctgc tgctgctgct actgctacct gtccgttttg 180
 tgttctaaaa gactctgatg agtggttctg aatgtctgca tttcaagttt gctgtgtgat 240
 gttaatgtac cgtgcgtacc ataaaaaac ttaaagatct a 281

<210> 53914
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-021-Q1-K1-H9

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 cgaccggggc atacgcatgt acaaagcatg ctggcttccg cttcttgaca agcacactaa 360
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<210> 53915
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-022-Q1-K1-A7

 <400> 53915

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 gccacctatt ttcaatttac tttcccttat ttacatcct cttcacttta aaaacccttt 240
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 <211> 277
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-022-Q1-K1-A8

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<210> 53917
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B5

<400> 53917

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 gactgatctt gatgtcaaag atgcagatgc cagaaattat ttcaggaagt tccatgctgc 360
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<210> 53918
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-B7

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tcgtgttcgt gatggtgtac gaaaaaatgt agatgcaaaa ggtggggttag cgaagagatt 300
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gggac 365

<210> 53919
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-C12

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aaaaaaaaaa taaagggggg ccgccttttt agatcctcca ttcttacctt ccccttccta 180
cgacttaatc cttctttttt ttccccacct aaaattttac taccgcctt cttttaacaa 240
cctgacttct aaaaaaatcc tttccttccc caaattaatc tttttgcaaa tcctcctttt 300
ttcacctatt gcaataacaa aaaagcccc cccacctttc tcccttacca atttttcccc 360
ctccctaatt aataatgcgc cccc 384

<210> 53920
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D4

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tgattttgtt tcttatgtga acgagtgggtg caaagacggg gctgtgctta tcggtggctg 180

ctgcaggaca actccaaaca ctatcagggc catacacaga actctgaaca aaagccccaa 240

caagcagcag ttacctgctg tagaataaga gctgtgctct actctgatgc gccgccttc 300

ctcctagcag tacctcgagg ctataactcc atgattccgt aaccgtacgt gttcgttctc 360

ttgcaaacga gatgtttgt 379

<210> 53921

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-D5

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gtccgcgctt ccagaaagca ccgttggtga ctcgagatag cgacctctac tccgaattta 180

ctttcagctc ttgcatgttt gtggttgtgg ccatcatgta ctgattttcc cttttcaaca 240

attgtcgtga agctgtatcc tcttgaataa aaaaaaaaaa aactaaaaac ccgcccctat 300

tattaaaatt acctgg 316

<210> 53922

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-E2

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atTTTTggca taactgggga acatttattc tggtaacatg gatgccca tactacaatc 180

aaggtctgaa ggtcaatcta accgaatccg ggctttctttt tgtcttggca tt 232

<210> 53923
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F11

<400> 53923

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaagtacg cctccaaaaa acgtcataac ttttctataa tgaaccctaa 240
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<210> 53924
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<212> DNA
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<223> Clone ID: LIB3079-022-Q1-K1-F12

<400> 53924

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggtgca aaccaaaaaa atcaaaactt 180
acattcacat gcatgccact tctaatttat caaatattgc cccctaaata aaattcaatg 240
cccaccattt taaaacaacg taaatggaaa aacccttact ttaccaaact taatcgcta 300
ttaaacaatc ccattttccc caatttgatt aattttcaaa atgcccacac caatccccct 360
tcc 363

<210> 53925
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-F9

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aaaaataata taaaaaaaaa aaaaaaaaaat agggggcggc ctttctatat caatccatac 120

ttacttcagc gtccttgcaa cgtaatagct cttttttttt gtaacctaaa tttaatcaac 180

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<210> 53926

<211> 175

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-022-Q1-K1-G2

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tctcgcttc gacttcgtca tggccggcgg caacctgttc gggcgggcgc tgagc 175

<210> 53927

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H1

<400> 53927

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gcgccggcgc cccttgcttg ggccgtgcgt ccggtggact tcaaagtcct caaaaaagga 120

cc 122

<210> 53928

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-022-Q1-K1-H6

<400> 53928

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 tccttatattt ataagcggtg aaacaacgag ccttgataat tcaccggatc ttcttagtat 120
 tatctctgac aaaaaaatat aaagtctgtc cccacaaatg caaattagtt tcttgatttt 180
 caattggttg ttaaattgtct gacatgagca atcagtttgg ttagcataaa aggatggtga 240
 ttttgacaac tacacagttt gtaggaacaa caataaaaaac acttcattat atattagggc 300
 tctatgatgt tcaccattca tggttctcta ccagatcaca cattgcataa atcaagttct 360
 acgctattgg ttacttttca gagattcaga cagaacattt atattcttgt tcctggattg 420
 agcata 426

<210> 53929
 <211> 186
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-A10

<400> 53929
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 aataactaga acgcaaggaa atataaaaaa agtggcgggc gttttaaagg acccaagctt 120
 atgttccctt gcatgcgagc tgataaatct cttttagggtg caccaaaatc caattcattg 180
 accgct 186

<210> 53930
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B1

<400> 53930
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 atgctggagc agtgtcaaca atcgatgacc tatagaggat aaaaaacgca agcaaaagtc 180
 gattctatat aactcttcgg agtactctac atatatctga aggacattta ccctacaaag 240
 atactgacct taggcacaat aagcaaagta ttgatgccca attgtcaaag aacatatggt 300

aacgatcaat attgtcataa tttattgcaa ataccttgct caaagcataat ttattttcat 360
 taccaagtat 370

<210> 53931
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B2

<400> 53931

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 accgatacac caagatgacg ggcgagaccg cggacgagct cgccaccag atcgagcagc 180
 agaagctcga ggagcataag accgaggcag aggaagttgt ggtggaggat gaggaggagg 240
 aagatgagga cgatgacgat gatgacaagg atgatgatga actcgatggg gatgccagtg 300
 gcaagtcaaa gcaaagcatg agtgataaga agagccgcaa ggccatgctg aagcttggca 360
 tgaagcccat cactggtgtc agacgcgtca ctgtgaagac tagccagaat atac 414

<210> 53932
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-B5

<400> 53932

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 gctttggaga agcgaacgaa atcgaaaggt ggttttgcca cgaaggtaaa tgtgattgat 180
 gatgatgatc tacttgagag agagctagaa caagggtgtg agttggctgt tgagtttgag 240
 aagattaatc aagataagaa gcagaactcg tccgatggta gcatgcatgc accagacctt 300
 gaaaacgctg actaattaat ggagaatggc caccatgtct agcagagtct accaactaca 360
 gctgaataca tgggctgtcc gatggacagt aaagaacgac atacttcagc acttta 416

<210> 53933

<211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-B8

 <400> 53933

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 caggcttacc aactcgtgag ggcaactgat tatcaacatt aaagtgtaac aaaagttaaa 180
 ttcaatggcc atgtgttcac aacagcatgt tctcgaaaaa cctgggtggtg tcccacctaa 240
 atgaccttga tctacatccc cttttaacca gctggcttat tttcctactg gtcggaacct 300
 tgcgtggtct gcaactgttg ctcaacctga ttggcaattg gtacccgctt taacacggca 360
 cttgtaccgc ctctggagcc c 381

<210> 53934
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-C2

 <400> 53934

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 aataaaaaaa aaaaaaaaaa aaaaaaaagg gagagatata aaaaaaaaaa aagaataaaa 120
 aaaaaataaa taaaagacta cctcttttaa aatcccaacc ttacatcctc ttcctttcta 180
 cgtcttacct ctactttagt ttacctaata ttctattcac ttgcctttct tttccatctc 240
 ataatctggc aaatcctttc cgttcccca ttaaatcgtc ttgcactaca tccccttt 298

<210> 53935
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-023-Q1-K1-C6

 <400> 53935

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cgcgctcgac ggcgctgagc acggagctga tcaacaagcg gggccatgtg cggcgcggtgc 120
 ttcgccatcg cctgcgacgc ggggcggtcc cagtgggtgca agccggggcg cgcctccgtc 180
 acggtcacgg ccaccaacct gtgcccgcgc aactgggcgc tcccggggcg cgcgggcggc 240
 tggtgcaacc cgccgtgccg acacttcgac atgtcgcagc cggcgtggga ggccatcgac 300
 gtgtaccgcy cggggatcgt gcccgtaac taccgccgcy tcccggtgccg tatggacggc 360
 ggcgtcaggt tcaccgtcca ggggcgcagc tacttcgagc tggtcaccgt cgccaacg 418

<210> 53936
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-E3

<400> 53936

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 atcttctcgt gactgacacc atcttactcy ggtaagcact gactggctat accgaacctg 180
 acattcctct taaacgacac tgctcatct atcacatatg cttattaatc catccaaagt 240
 acagaggaag ccatacacta tatgaggatc ataccacaac cataagggac cctcggacat 300
 tgggagcagt tgaatctaac tcagcatcat gatccatgct tgacatcctt gtgaggataa 360
 cgacgctacc aacaagctgt tggaggccta ggacaacaat tctcctaagc agttgttact 420
 catgaaagtt tgccctg 437

<210> 53937
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-F3

<400> 53937

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 caagctataa caatggtagc aaaactgatt tagagacatt catccaatca aattcagcac 180

catttcaatc tgacaacaac cttgagctgg tgaacaagt gctctcctag atgtacaaac 240
 agaacataca aaggctgacc cagacttact tgactctttc acttgaagat attgctaggt 300
 ctgttcaact tgaacacca agggatgctg aaatgcatgt acttcgcatg atcgaacact 360
 gagagagcca tgcattcata aacaaaaagg atggaatggc cagctttcat gaatatcctg 420
 aacaatataa aagtgttgaa atggtgg 447

<210> 53938
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G1

<400> 53938

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 tgaacgaggc ctagagggca acaaattcgt ggtcgtgaa cgaccacagg ggcactcgag 120
 gggactttac tgtacagact cgggttgaagc agtgggtgaa gagcggaaaa tgcgaaaaga 180
 aaatgcctgc gatgtactcg aggaaaatgg gtgcagccac cttcaggaat caaacggctc 240
 agacttgatg tttgcagact agagtatgac aacatgttat tccatctctg atgttaaadc 300
 tactccctgc atcctcattg atggcacaaa gttgcaatac agaactgac agggccttatg 360
 agagagagag agagagagaa atttatcctg acacacatgt atggatcaca tttgggtgtc 420
 ttcttaaaac aagacacgac aagatattct ttttacata 459

<210> 53939
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G2

<400> 53939

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 tgactaagga gcatagaatg tggagaattt taccttgggc caatcaaaag ggcactcata 120
 agagactcta ctgaactaac tcaatagaat caaaggatag aatagaggaa aatgcaaata 180
 gaggatgaac ggtatgttct cttggaaaac tgctgctaga acgtttatga atcaaacacg 240

gtataactaga tgtgctcgga ctaaagtatg acaacatggt ataagatctt tcatgttaag 300
tctactcctt gcatactgaa ctgtggaaca aattcggtat acagaacatt acagggctta 360
tgctagagag cgatggagac atatataacc tgtgacacat gtatgggtg 408

<210> 53940
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-G9

<400> 53940

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atcaacgagc tcatctccaa gctgcaggcc ctgtctccca gctcccgccg ccgaggctcc 120
ggccaggcgt cgacgacgaa gctgctcaag gagacctgca gctacatcaa gagcctgcac 180
cgggaggtgg acgacctgag cgaccggctg tccgacctca tggccaccat ggaccacaac 240
agccccggcg cggagatcat ccgcagcatc ctccgctcct gatcgccac gcgcctccta 300
ctgcggcggc gccggccggc gcgcgagaga gcgaggtcgg cgacgacctc gatcgccgac 360
aacgacgacc gcgcgcg 377

<210> 53941
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H10

<400> 53941

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catgtgcacg gggtttgggt ggaatgccta cagaatcgac tgtgtcaagc tttcttgatt 120
ccgtagaaac atgttttgtt tgacctcatc atagaggatc tccgctttta tcgtacaaag 180
attgtgatat gttcttagct tctttctacc tgaataagag gatttctgca gacccttttc 240
caaaa 245

<210> 53942
<211> 246
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-023-Q1-K1-H11

<400> 53942

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ccgtagacac atgtcttgtt tgacctcatc atataggatc tgcgtttcta tcgtacaaag 180

attgtgatat gatcttagct tgtctctacc tcgaataaag gattttctgaa taccctttta 240

catagc 246

<210> 53943

<211> 165

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A1

<400> 53943

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gtggatctgt gaaccccatg ggcctctctg tgtgagtcgt gtttcacctg ttatgttctg 120

agattcatga taatgctatg agaactgaaa ttcccgtttc atgct 165

<210> 53944

<211> 107

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-A2

<400> 53944

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaatttttaa aaaaaaaaaa aaaaaaaaaa 60

aaaaggaaga aatattaaaa aaaaaataaa aaaaaaaaaa aaaaaaa 107

<210> 53945

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-B3

<400> 53945

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acggaggaag cataatcaga caatgaaaac taaaagaggg gccgatcta gacgatccaa 120
tatcacatac acaggcttac cacattatag ctcttatata gtggcaccta aatacaatgc 180
cca 183

<210> 53946

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-C8

<400> 53946

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tacatacaga aacatatcaa ccacataact ctcatataat atactcctaa attcaattca 120
cttcaccctc catatacaac ctcttaatct aaaaaaaccc ttccattacc catcttaatc 180
accttgcatc acatccccct ttcaccacca tacatactaa ctaccacgtc ctcacctatc 240
ttccttccca acaattgcac accctcaatt gctaattgga ctccactgt actctcgcat 300
taatcacctc cgccatagtg gttacgctca acctgaccat tccactctcc atctccctat 360
cgactcatcc tttccttttc ttcccttccct ttctttctcac gtt 403

<210> 53947

<211> 497

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-D1

<400> 53947

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ggctcccaag tggcacgacc atcttcaggg ttggtgctta aatttccacg gtcgggtgac 120
cgtcgcctcc gtgaagaact ttcagctcgt cgccacagct ggctccc 180
cgtcggagac caggagacag tgat ctgca gttcgggaag atcgaggact atgcgtttac 240
gatggactac cggcagactc tgtccgcctt tcaggcgctc gccatctgcc tgaccagctt 300

tggcacgaag ctggcctgtg aataaatggg tgccggttta ccaactatgt tggggatcag 360
 attgtatggg gtagtctgaa ctaggtgccc tgagcacctc agatgggaga aaactggcga 420
 tatgatacac ggcgacgtt gtcctataa accttgactc ccttgaatcg ccctaattgat 480
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<210> 53948
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-D3

<400> 53948
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 agggggaatg gggaaggag cgcaaggag cgatgcggcg gcggcgggcg gcgaggtgga 120
 ggagaacatg gcggcgtggc tgggtgccaa gaacaccctc aagatcatgc ccttcaagct 180
 cccgccgctc ggcccttatg atgtccgct ggcgatgaag gcagtgggga tttgcggcag 240
 cgatgtgcac tacctcaggg agatgcgcat cgcgcacttc gtggtgaagg agccgatggt 300
 gatcgggcac gagtgcgcgg gcgtggtcga ggaggtgggc gccggcgtga tgcacctgtc 360
 cgtgggcgac cgcgtggcgc tggagccggg cgtcagctgc tggcgtc 407

<210> 53949
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-024-Q1-K1-D5

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 ttggcgctta gagaggagca atacagcggc atgcttctgt cggcctacaa ggagatgttt 180
 tctgaccgcc aagataattt gaatgattca ggggatgggtg gaggagcccc agtattcaaa 240
 tggttctccg tattagaatt tgagagtctt gccaggagc ttgttcagat gtttgtttca 300

gagcaaaagt tgaagaggct gctactcttg gaatttctct cgattgcttt aaaggaaggt 360
 gtagaactcc agacatcatt aaattggggg gatgaactat atgatgggtga atcanataaa 420
 cttcagagta tnggccttca gtcaggagat gcctac 456

<210> 53950
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-F8

<400> 53950

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 agagcatggt ggctgagccc tagagcacia aattctgggc ttctggcaaa ctatttcctg 180
 agacgttcac catttccatc acagaaaaat aaagctcggg tgcccttctgt tgatttcgac 240
 gtacatttcc ctgccgatgg tgtccagccc actggtgtcg ctggagaaca cgtcgttttt 300
 agacttgtga tattttacta ctgttttgac actcggttga tttctgtata tcgcgtcaga 360
 ctgtgaaata aaagcagtac agtgtgtttc ttgcagaaaa gatcatcaac 410

<210> 53951
 <211> 155
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-024-Q1-K1-G3

<400> 53951

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 aacaggggaac tgcttgtatt caaaattgtg ctttcggagt gtggtactgc tgttactcat 120
 caaaactgaa aaaaatcggt cttaccatca taaaa 155

<210> 53952
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-A10

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 cagaatgatc aactacctga tgaataagtg gaaaggatat atcataactt agataaccagg 120
 taccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa 180
 agataaaaaa agacaagata aacaaaaagc taaaag 216

<210> 53953
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-B11

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 caatgatagc ttcagtatgt gaaaaccac ctttatacc cttatgctc caacaagcaa 180
 tccacagcta gcaacatacc tttatcacc tattcggttc aacaatcgcc gaccctatct 240
 ttgggtgcagt catcgggtca caccatcatg gcacatcaac taccgcaact catgctacct 300
 gtgatccacc aaactgctct agcaaaccct gctacctact ctcagcatca aactcacta 360
 tcattcaacc aactgtatac acttaaccct gctgattatt ttcacaaaca tctatatcca 420
 tttta 424

<210> 53954
 <211> 54
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-025-Q1-K1-C1

<400> 53954
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<210> 53955
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-C9

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tattcgagtgc ttgatctcct accagatctg ggagcaactg tagttgcgag cccgaatagc 120
ggatcaagca acgactacgc cttcgactat gatctgcagt ctgatctacc tacagagaac 180
cctagatata actgggcaac cgcacggacg cccacgtgac gtcgcaggac cagcagaaca 240
tcaaccgctt cattcgcttc aacaaccgcc ttcacaagct ccaggacgag atcaagctcg 300
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<210> 53956

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-D8

<400> 53956

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ggttgaggct tgattctttt tgcttggtgt gtttgcccta tagtttgat attgccctaa 180
ctgcctaagg ttgtctccgt cagtttttca accacacctc gtgttctata ttttatttca 240
aactctactc tgtaaatacg gtaaatagtg cactctatat tataaaaaata aattttgtat 300
gactatataa aaa 313

<210> 53957

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E10

<400> 53957

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ccctaccctt ccatccaacc ttttttctct tctttaactt cccctcaatt cacttcactg 180

tccttcatta tacaacttct tacctggcaa aaccttttct ttaccaatt taacctcctt 240
 tcattctcatc cccctttccc catcttttctt attcccaaac atccccgaac cgacctccct 300
 ttccaacctt atc 313

<210> 53958
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E12

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 ctctcttcca tggctccgac cgtgggttgc aaggacggga agctgggtggc tgcagtcggt 180
 gccagtgggtg gcggcatgat ccccgccgga acgatcgagg tgttcatcaa ccatttcgtc 240
 aagaacatgg acccgttggc ttccgtcatg gcgccaaggg tgtatcacca gctgatccca 300
 aacgaggtca ggtacgagaa ctggacgacg gtgaccggcg accacttcga gctcgacgcc 360
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 ataagccagc ttgtggtgca caacg 445

<210> 53959
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E8

<400> 53959

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 aaaaaaac 69

<210> 53960
 <211> 71
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-E9

<400> 53960
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 gaaagataaa t 71

<210> 53961
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-G11

<400> 53961
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 acccgattgc acggcatcac tgtcttgatg ccgctctgcc gctcgggac atcgctgagc 180
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 gaagcacata cctaacgata tgttcga 267

<210> 53962
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 <212> DNA
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<223> Clone ID: LIB3079-025-Q1-K1-G2

<400> 53962
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<210> 53963
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-025-Q1-K1-H11

<400> 53963
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 gaaagtgaat aaaaaaagga tgcataaaaa agggcgacca ctttaaaggc tccaagctta 120

cgtactcttc catgcaactt cataactttt ctatagtgtc ccttaaattc aatt 174

<210> 53964
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A12

<400> 53964

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atccttggtg ctggattctt tctttgctac tagctaggtg tcccttctcc tatcagacag 180
actataaggg caggcccgtc ctcaccgttc cgccgccgcc tcgaactgga ggagcgagca 240
tgtatccgc accgaaacac acacgcaaac ggcaccacca ccaccaccac cgtccggcga 300
ggtagggagg cagcggcgcc atgggttgct atcctccct ggccaagatc gtgtctagag 360
cgctcgaaa atgcaacggc gggcgcgaga gatggcttga aaggaggctg gagctggact 420
ttgatcacgc cttgggtgt cagcccacgg agaccacta catgcg 466

<210> 53965
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A2

<400> 53965

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cctgggatcc gccaccagta ctagtttgca cggcaggagc aagttttacg atggaggaag 180
cagaagaaat agttgactct gtcaatgaaa ggaacgatga cctgctctca gcatggtgtg 240
aaatggttaa caacaaagtg actcctttgc ctgcaacgcc tctacatatt cttccagcca 300
taaccacatt ctgtgtttct ggatatgagt gctaccacct gcgatattgg actgaaatta 360
cttctgaaac tgatccagat catccatatt tcaaaccctg tgagatgatg caagtgttct 420
ccttgga 428

<210> 53966
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A3

<400> 53966

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tgtttatatg tccacottca cactgattag ctgttccttg ttctacaca ggtattatct 180
gtcatgtaca tttttatacc tttccaaatt agcttattat ctttaaaaaa ttgtattttc 240
ttggctactt tacatttgca tgaccagtgg caacatattg aaacactcat agctaactta 300
gaggaaagaa aacataatct ttaaattgct cataagagag aatgtcattt ttcagaaaaa 360
aagacaaaca gtattgatgc cttataaaat cttaaactga tgcattgttaa tattatca 418

<210> 53967
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-A6

<400> 53967

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aacatcaaca catgatcctt tagtaaccgt ttcaatagga gtacccccaa gaactagtaa 180
acatggcaaa actgttgagc ctgttcttag cctctctctt tgtagcagct atgtttgcca 240
taggctctca tgctgatgga gactgtgaga atgacctgca aagcctgata agtgactgca 300
agacatacgt gatgttccca gctaatacaa aggtccctcc ttcggatgct tgctgtgggtg 360
tcatcaagaa ggcatacgtt tcttgcttgt gctccaaggt caccaaagaa actgaaaaag 420
ttgtgtgcat ggaga 435

<210> 53968
<211> 440

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-A9

 <400> 53968

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 gaagcaaaac aaatttaca gagccaacta tggattctat gcaaactgat aagaccccaa 180
 cagtcttggg acttatgctt gcacaactct gtgtttacat tgaacaaaca acagtcccta 240
 aagttacaga ggagtttagct tctttttttg gaggtggtgc acatagctac gaatatggac 300
 caccttttgt gcctggagaa atatgtcggc tatatcgatc atctggagag aaattcttgc 360
 accattacat aaatatgaag acccagaaga tctccaaact tcttaacaag cgatttaca 420
 caccagtttg gattaagcac 440

<210> 53969
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-B1

 <400> 53969

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 tgtccgcgcc acagcacacc tgtggcgctc cggctcgaga tgctttgcac ggcgtagctg 120
 gcaagaagcc aggaaccttc cctgttcctt accgggcgca aaggggctca cttttaattt 180
 cctcgagagg ggactgcctc ctttattcgg cggcaagcct atttctgcct tgttgccctg 240
 cactcgggct gtccttcttc tatgattctt ggcaccgtca gtttaatttc gagaaatggc 300
 cgcaggggtg atactcaaga ttgccagctt atgcgtcatc tgggcgctat 350

<210> 53970
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-B10

 <400> 53970

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 tgagtcaaaa accattgtga aaatagtacc aacacacctg ccacatcaag aggtaaacta 180
 taaaaaaat cacatttcat aatctcttgc tgacctgcta ttttcatcca cacttgttac 240
 cgtctggttt cgctctaaaa gcgaagctta tgtccatctg catgtattga tgtgggtttt 300
 ttatttaata tattatgagt gctaccagca tgatctgttc cattctgatg attggatgga 360
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 acgacgcata ct 432

<210> 53971
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-B11
 <400> 53971

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 ttgatttcat ggtggatctg aaaggatcct aaacagcaag acccagaaaa tccgttaaac 180
 agctctgctg taccacttg taaaattaca tgagccatcg ggttcaaagc gaggcagccc 240
 tctaccttga atatggaatt cttttattgg ttgttttggg acttgtgacc ttctaggaat 300
 agctacttaa gctgtctaag ggttggtatg cgcacaccac attacatggt tttcacttct 360
 tttaacacac atttaactga tgcaaatagg tcttgccatt ttttaaaaaa aaaaaaatct 420
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<210> 53972
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-B3
 <400> 53972

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 taaccctcct tatgtgccaa ctctgtgga agaagtcgga tgtagaggca ttgcttcgtc 180
 ctgggcaggc ggtttgaatg gccgccaagt gattgacagg atccttcttg ctgtgctga 240
 gatgctatca gaaagggggt ggctgtacat ggtggccctc gaagataatg atccttcaga 300
 catatgccat ctgatgagcg agatggggta tgcattccgc gttatcttga agaggtgtac 360
 tgaagaggag agcctttatg ttctcaagtt ctggcgagac ccacacgctg ttacaagtgt 420
 g 421

<210> 53973
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C10

<400> 53973

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 gcggcgctac aaccagtttg aaaccagtc tgctgctagc atggcacctc gtgtggaccc 180
 tctgcaagct gtgcatactc ctgttgatga catgatgctg catgctgatg ttgacccaaa 240
 cgatcctacc aagatctttc ttcatcaacc tgcgccagaa tgcgagctta ggaggaggaa 300
 ctaccactgc ccagctgatg caaattagcg cttggctgga ttggcacaac tcatgctcaa 360
 ttaagtgtcg agtccatttg agcattttac ctatccttgt cctctaccac atctgacttc 420
 aatattcg 428

<210> 53974
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C12

<400> 53974

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gccaacctct gcattaccta acatcttcaa gctacctttt ttcggacggc atcttggaca 180
 ttgccacttc ccagggggta gacgcttaag aggaggattg aggcattcca agtggtaaac 240
 actaggacag ctatcacaac atagcagatt gccaccaaga tcacattcta cacactcaaa 300
 aaaatacca tegtgtcttc ttatcttctt ggctgatgga gaaatgtag tgtcatgctt 360
 caacttcttt atgggtggaac catggctcat tggagagtca aatg 404

<210> 53975
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C4

<400> 53975

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 gacacctccg agttcgaaca ctctccatt ccggccacca tcaagaagat cttcaacctc 180
 tcgtccgatt tcttcaccaa gagagacgcg tgggcccgtta ccttcgacca catcttcacc 240
 gagctcgacc aaccaagaac agattgcccga gagacattac cggaggtgcc atttgagaga 300
 ccaactccac ccaaagaaca cggctggctc tcagatttcc agcgggagct cgtcgagctc 360
 gcgagcttcc taaacggcga ctacatgctg acgagccttg cgcaggagaa ccgtaagaag 420
 aagatgacag tcaaac 436

<210> 53976
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C6

<400> 53976

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 ggtttcaacc atgacagatg acaagatcaa gcagaaggcc atcgaatctg ctgcggacat 180
 ttacggtatt gactccatat cagcggatct gaaggagaac aagatgacca tcataggcga 240

gatggatgca gtagcgattg ccaagaagtt aaagaagatt ggaaagattg acattgtgtc 300
 tgttggacct gcaaaagaag aatgaagga agaaaagaaa gaggagaaaa aggaggaaaa 360
 gaaagaatag aagaagagg agaagaaaga acagaagaac gaagacaaga aagaagaaaa 420
 gaagtgataa acctattaaa catatata 448

<210> 53977
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-C9

<400> 53977

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 caccaaacta ctatctcttt tacacccttc actctttttac ctcatcttta attcacccca 180
 ctgtctactc catccttcca ccttttatca acttactgct tccacaatta aatccctttc 240
 ataataaaat ccattacccc atcaaaactca ttacctatcc atcctaaatc cttttctata 300
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<210> 53978
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D10

<400> 53978

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 cggcgaacgt gtcggcgctg gtgtcgctgg ggcgggagaa gtcggacgcg cgcagtgtccc 180
 ggggcgcgcg ggtgtcgcg atggacatgc aggcagtggc ccgcgacgcc gtgacggcgc 240
 gcacccgggc cctgcccgtg gacgccagcg ggggcgtgta cctggtgctc acgtccccgg 300
 acgtcgccgt ggacgacttc tgcgggcagg tgtgcagggt tcaactattc accttcgcgt 360
 ccgtggtcgg gtccacgctg acgtacgcgt tgggtgggcaa ctgggcgcgc 410

<210> 53979
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D12

<400> 53979

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ccaattaaca ccccttgtga ttactaaaac tgtgagcgaa tgttacgttg ttcttgact 360
aacccttcg ctctccta atgaaactgtct aatgttcagg attaggtcct cttcagcttc 420
aagataacaa cg 432
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<210> 53980
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-D3

<400> 53980

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caggggtcgg cagagtgatt gaatccttca aggtcttga gtacttggat gttcggtcac 180
gccctcaggt tacaaggac agctgcgagc aagctggagt gcagtttcct gctggctgta 240
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atgtgatctc ggttgaaatc agatttagtg tgaactgcaa aactaagatt tgaagagctc 360
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aacctgagac cacaacggat gcaagccatg atcatattc 459
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<210> 53981
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-D4

 <400> 53981

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 cacttgtcac cactactgat gccattggct accatgaacc catggatgca gtactgcatg 180
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 <211> 285
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 <213> Zea mays

 <223> unsure at all n locations
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 <400> 53982

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 tcggcgagat caactcattt caagtaacct ttctgtctaa tgtcttecta tcctgttaat 180
 cgtctcttag anntgtttgg cgtgtcctgg tttgagattt cagtctgcta gtctgcataa 240
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<210> 53983
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-E1

<400> 53983

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gtcctgttgc aatggcgccct tcagtaggtc ctgcgatgcc catgtttcca cctgggtgtcc 180
ctgaagttgg ccagcacctg ttttatggca agccacaacc agctttaata aaccttaagg 240
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<210> 53984

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-026-Q1-K1-E11

<400> 53984

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gagaagtgtg taacttatgc tgaaagtcac gatcaagcat tagtcggcga caagactatt 180
gcgttttggg tgatggacaa ggatatgtat gatttcattg ccctcgatag accttcaact 240
cctaccattg atcgtgggat agcattacat aagatgatta gacttatcac aatggggtta 300
ggaagagagg gctatcttaa tttcatggga aatgagtttg gacatcctga atggatagat 360
tttccaagag gtccgcaaag acttccaagt ggtaagttta ttccaggga taacaacagt 420
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<210> 53985

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-026-Q1-K1-E4

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gccttttacc ccagcgttct ttgccccagg gggcagtgca tacttggtgg atgcaaaagg 180
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 cagttatgga gtgtcatctg aaggcgcacg tagggaagca gggagctact ggcccatgtc 360
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<210> 53986
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F3

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<210> 53987
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-F4

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gaagtgatga gtagtcgcat tatgcatata tgcaatgaag aaggcctcaa tcttaatgct 300
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<210> 53988

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-026-Q1-K1-F6

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gccatcaaag gtttctggga catgtacgac ccagaggggt actctttgtg gttctgtgac 180
tacaagtaca atgatgagaa caccgtctcc tttgtgacct tgaacaaggt tgggtggattc 240
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gagccaccct tcaagctgaa gggcctttgg ctcttccgtg gccaggatgt tcccaagttt 360
gtaatggacg aggtctatga catggagctc tacgagtggg ccaaggtgga cactctctat 420
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<210> 53989

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G1

<400> 53989

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tttcatgaaa ttgggcactt tttggcagca tttccaaaaa atgctaaact gggaattcct 180
ttctttattc cgaacttcac ccttgggaact tttggcgcaa ttactcactt caagtccatt 240
cttccggatc gaaagacaat gtttgacata tcaatggctc gtctgtggc tggagctgca 300

cttttctttt caatgttctt tgtcgggtta ttactctctt caaatcctgt tgacgcaagt 360
gattt 365

<210> 53990
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G2

<400> 53990

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tgatacctta ttttgagctc acaaagtctg ggggggttgg ggaccttgaa ctgttcaggg 120
ctgttcgaga caaatttgca agcacattca ggcgagacag gactcgtaat ttgattgtga 180
ggctgcgcca taatgtcatt cgaactggac tgcgcaacat cagcatttct tactcaagga 240
tctcccttgc tgacattgct aagaagctaa gactagactc tgagaaccct attgctgatg 300
cggagagcat tgtagccaag gccataagag atggcgccat tgacgccacc atagatcatg 360
caaatggctg gatggtatcc aaggaaactg gtgatgtcta ctcaacaaat gagccacaaa 420

<210> 53991
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-G3

<400> 53991

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ggccaccgct gctgcaaacc gcaaactggg ttatggcccc gggggaggag gtggcggtgg 180
tggtagcggg ggcggtggag gcggtggtta cggaggacca ggctatgggt ccgcatcagg 240
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ctgctgcggg ggtggtgagg gtgcgggagc tgggtggctct gggatatgggt ccggtcaagg 360
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<210> 53992
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-G4

 <400> 53992

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 accaaacaga ccggttttttg gagccccggg atcttttagca ctaggacggc catcggcacc 120
 gttgctgcat acgcgcaact ctgttaatgt accccgggag cagctggtcg tcgtggcagc 180
 gcgggtacct gatgagctac ttacacaggt ccaacatcac ggtcctgaac aggttctaca 240
 cactgacct gtcggcgaac agctcgctgc acggcattgt cattcggctg cgggcactct 300
 cagagcgtgc tgatcaaccg cgttctacag gcttctgggc 340

<210> 53993
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-H10

 <400> 53993

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 cgccatcgag ggcattgaac gcaaggagct ggacggccgc aacatcaccg tcaacgaggc 180
 ccagtcccgc ggcggccgtg gaggcggcgg cgggtgggtac ggtggtggcc gtggaggcgg 240
 cggctacggc ggtggcgggc gccgtgatgg cagtggcagc tacggcgggtg gcggcagcta 300
 cgggtggcagc ggctgctacg gtggtggtgg cagcggctac ggcggtggca accgtggcgg 360
 cggctactgc aac 373

<210> 53994
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-026-Q1-K1-H11

 <400> 53994

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 ttgtatgaag ctgttgggtga aaatatttca ggtccttcat tccatttgaa tgaatattct 180
 agtggaaacca tacaagctac tggcaagcca aacgattgtc gacgtattga ttcagctgtg 240
 cggaatttgt tgctcaaagg attaggtcag ccgttttagtg aggaagatat tattgggtatc 300
 tatagaacac cactgctaga tcagcgaggg caagtctgtt gtggtctctt ccagaaggag 360
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 tcaagatata ccatggagca gatggcaatg cg 452

<210> 53995
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-H4
 <400> 53995

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 cacctcctat cctactcaa gctgctgcaa ctggttgcct acggatatcc aaccttcgta 180
 cacaacttcc tattagcgat caggttctaa tggcagtact catgctgcaa cttgttcagg 240
 ctaacgtact tcagtcacgc acatgccact gagcgacgtc gaaggctaca ctataatgac 300
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 acattgcaac tg 372

<210> 53996
 <211> 209
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-026-Q1-K1-H5
 <400> 53996

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cgcattgcggc acgttcttaa ggatccaagc tttcttcctc gtgcttgca cgtcttacct 180
 tttttatggt gacgcctata attcaattg 209

<210> 53997
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H7

<400> 53997

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 aatgcataaa ggctggacat ctttctcgcg attgctgaga aagcacatct gaggtggacc 120
 gaaatgatgg cagtattagt agaagcagag acgatacggg taccaatact gctcctgctg 180
 gtggcaacag tcctatggac gaagacgatg ttcaagaaat tggatgatgaa gagaaagaaa 240
 agttgattga cttggactac ttaactggaa acccactacc aaatgatatt ttgctatatg 300
 ctgtacctgt gtgtgcccct tacaacgcat tgcagacata caaatatcgt gtaaagatta 360
 cccagggcac tgcaaagaaa gggaaagctg caaaaaccgc gatgagcttg ttcctgcaca 420
 cacctgatgc taccaaccgt gagaaagagc tcatga 456

<210> 53998
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-026-Q1-K1-H8

<400> 53998

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 atgcatttga atagattgga gaaggaagac cacatactca aagcttttga atatttcgat 180
 aaggatcaca gcggatacat aaccgtatag gagttggaag aagctttgaa gaagtatgat 240
 atgggagatg acataactat aaaagaaatc attgctgaag tagatacaga tcatgatgga 300
 agaattaatt accaggagtt tgttgccatg atgaggaaca acagccctga gattgttcca 360
 aatcggaggc gcatgttcta actgtcatgg acaatcacat tgaatacttt caagaacaat 420

ctggccttag acataat

437

<210> 53999

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C1

<400> 53999

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ccatggccat cattgatttc atcttggttt gctcaatcgt gtcataaaaa aaaaaaaaga 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atggggacac 180
gaacccaggt gctctaaaat tagaacgacc agctgccaat tcaaagccta tctcactgag 240
catctagaat caatactaca tgcgcaggat aaa 273

<210> 54000

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-C4

<400> 54000

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cagcctgcgg gcaaccccg gacggcgccg gacgccgtgc ccgacacctca ctacggggct 180
ccgagggccg cgtgaagcgg cgcgctgtgc ctacagcggg atcttgccgg tacagatgtc 240
cttgaacatc acccagtcgc ccatcaagct gtagatcgga tgccggggacg tggcggggcg 300
gttcttcttg aagaagaagt gcccgacca cgcgaacccg tagccgcaga ctacaggcgc 360
tggcagccac agtcagttgg cccttgcat cggcacgggt actcagtcta tcacgcctag 420
cgagcctacc aaatgcatac gccgcgacgt caggttcttg tg 462

<210> 54001

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D2

<400> 54001

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cattgttgca aagctgaaag cagctgcagg cttggccaac atggaaacaa agaaatacaa 120
acttgctgca cgcaaggta gtcattaatt cactacacct ttaaagcacg ggtttcttca 180
tgcgtctcct ccacctgaaa tagcgagtgg tttctaccac tacaacgtgt ctttttatgt 240
tgtattaaga agagatattg tgtatgtgtg tgtatatata cacactaata attggaaaac 300
aaaaaatcgt gtttgaataa aaa 323

<210> 54002

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-D7

<400> 54002

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cctaacaagc atatatatat gccatgtata cacatgacct aatgcatgca ttctagcaga 120
gaaaccctaa tcaacaaaga tcatgggggt gatgcatgga catggatgga ttgatcgatc 180
actgcaccgg aggtcgatgt ccactctaat atgtaaagta gagtagctat ccggccgacg 240
atgcgcacgc ttgcgggtga aacatcgttt ttttttctct ctccgggtggg cggagggtcc 300
aaagattcgc cgattcggat ggacgagctg gt 332

<210> 54003

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-F4

<400> 54003

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attattaaaa aaaaaaaaaa aaaaaataaa aaaaggatta attaaaaaaaa aaaaaaggca 120
aatttataat aaaaaaata caat 144

<210> 54004
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-027-Q1-K1-F8

 <400> 54004

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tctgttgagt ttgaatcact tactttgggt agcttaccac ccacctttca agggatgaaa  180
gtctatgtca cagaggagca agagctgata atggaacat ctcttaaatg ggctgcaaac  240
ccaaatatta ctgttgctgt aaaagcctat ggtttgaaag ctactatcca cattgtggat  300
ctacaagtct ttgcatcacc tcgcattact ctgaagccat tggcgctac attttcttgc  360
tttgcaaaaa tccttgcttc actcatggag aagccacatg ttgactttgg gctaaaactt  420
tttgg                                           425
  
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<210> 54005
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-027-Q1-K1-G8

 <400> 54005

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gcgtttcttc aactcctggc aacctttggg attggtgctg aattcaatga agatgacttg  120
tgcaaattgc ttccatatgt cagtcgtcgt cgtcagacac ctgaactttg tcgattgctt  180
gggttgctgc agaaaatgcc aggtgtcatt gaagttctgg tggaaagtgg aagacctatt  240
gatgcaatta atttggctta tgtgtttgag cttactgaac aatttgaacc agtacacctt  300
cttaaagcat atctaaggga tgtaagaaa atgtcacacg ccaggaatgt caaaacttct  360
cctggagcac agaatgagat gaatgaacgt gagttatctg ggctgaaatc tggcattaag  420
  
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<210> 54006
 <211> 459

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-027-Q1-K1-H3

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 acgggaggtg gcgggggcta cggcgacctc cagcgcgggg gcggcatgca cggcgaggcg 180
 cagcagcagc agaagcaggg cgccatgatg acggcgctca aggccgcgac ggccgcgacc 240
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 acggtggcca cccccgtgct ggtgatcttc agcccggtgc tgggtgccggc cgnccatcgcg 360
 ctggcgctca tggcgggcgg gttcgtcacc tccggggggc tcggcgctcc tgcgctgtcc 420
 gtgtttctct ggatgtacaa gtacctgacg ggcaagcac 459

<210> 54007
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-027-Q1-K1-H5

<400> 54007

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 tgtgctagag ttgatggaaa ttgggcaaac aaatagagca gttggatcga cagctctgaa 180
 tgaaaggagc agtcgatctc acagcattct aactgtgcat gttagagggg tggatttgaa 240
 gaatggatct acttccagag gatgtctaca tctgattgat cttgctggga gtgaaagagt 300
 ttgagcgatc tgaagcaatt ggagatagat taaaagaagc acagtatatt aacaaattcc 360
 tctttgctct gggatgatgtg atttttgctt tggcacataa aaatgctcat gttccttatc 420
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<210> 54008
 <211> 94
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-027-Q1-K1-H7

<400> 54008

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taaaaaaaaa aataatttaa aaaaaaaaaa ataa 94

<210> 54009

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-E4

<400> 54009

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agaaacacta agatattaaa taaaggggggt actacaatgt ttatgtggcg atatcaagta 120

ctcttacatg cgaatgtata actttccaaa ggagtatagt aaattaaggt aactggccag 180

atcattacaa ggtcctgatt ggcaaacct atacctatct gatgttaatc agattaaaga 240

aagatcgaat ttccccagct tgcagtatat cca 273

<210> 54010

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-F7

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aaaaaaaaaa aaaaaaaaaa atataggaga attttttaaa atacatggga gaaaaataaa 120

taaaaaaaaa aaaaaaaaaa aataaaaaat aaaaaaaaaac atttatcaac tttagggtc 180

ctcataattc ttttcttttc ctcaattatt tttcttccat attattttcc tttacccta 240

tttaattcat ctccaatatt 260

<210> 54011

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-G8

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aagatggggtc agattaagaa agaccagttc atccagttcc tccgcaatta cgtcggagac 180
gaagtgctga aaaccgtggc caagaaactt cgacgatgct aaatttctag tgcgcggtgc 240
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ggaggttcac ttctgtttct gttgattcaa gtttctgtca agggcttata gggggtttgg 360
cgcgctgttc ttacattaac caacagtcca tcacaaagga tagatgcagt ttctgatact 420
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<210> 54012

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-028-Q1-K1-H8

<400> 54012

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aaaaaggggc gggcgttctg gaagaagcaa gatgctgtac acgtgcatgc ggggtcatgc 120
ctcttctatg gggtcaccta aatgcatt 148

<210> 54013

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-A5

<400> 54013

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tgcccgagc ottacaacgt ccaaggctgg caaaa 155

<210> 54014
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B3

<400> 54014

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 acacttccca gattgggttag agct 384

<210> 54015
 <211> 313
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-B7

<400> 54015

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 gcaatgctga caacagtagg aatgacactc ttgcgaggat tgattctttg cacatcactt 180
 cagatcaagg tgggggcaac atgttgacga ggtacgatgg cacgaacagc agctgcaacc 240
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<210> 54016
 <211> 105
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-C1

<400> 54016
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<210> 54017
 <211> 355
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-C2

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 aacctcatcg tcgcaggttt tatccaagca atctgagaag gaagatatgg aaataaacac 180
 aatacttgag gaagaggcgc tgatagcagc tcacagaaaag gaaattgaaa gtacaatgga 240
 gatagtacga gaagagatga atctattagc agaggctgat cagccaggta gtcttattga 300
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<210> 54018
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-D9

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 cgttgctgcc tttagcaagg gagctggtga aaagtcgctc tttatgtctg agcatgagaa 240
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<210> 54019
 <211> 75

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F3

<400> 54019

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<210> 54020
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-F8

<400> 54020

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aggggttcca agcttacgtc cgcttgcttg ctacgttata gctcttctat ggtgtcacct 180

aatttcattt 190

<210> 54021
 <211> 331
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-G4

<400> 54021

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gtgcggattt atggtgaaaa ttcagagctt ttaccttcag tattattatc attgagtggc 120

gagaaagggg acagaaataa ctcaattagt agttctgggtg gaaccttcac ctttgacaac 180

ttatttcctg gaagtttcta tcttcgagca cttctaaagg gatattaatt taattcgtca 240

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gtggcttaca ctgccatagg ttttgtgaca c 331

<210> 54022
 <211> 441

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-029-Q1-K1-G6

 <400> 54022

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 cacgaaaggt tatgcagcca agtttgtaaa agaatacatt gaggaatcaa aacctctttt 120
 tgcagttggg gaatactggg atagctgtga atatagcccc cctgactacc gactgaacta 180
 taatcaagat atccatagac agaggattat taattggata gataaacactg gaggactttg 240
 tgccgcattt gatttcacga caaagggcat tcttcaggaa gctgtcaaag gagagttgtg 300
 gcgtttgcca gattcagaag gaaaaccacc tgggtgtgatg ggatgggtggc cttcaagatc 360
 agttacattt attgaaaatc atgacactgg gtccactcaa ggtcattggc cttttccgtc 420
 agatcatatt atggaagggtg t 441

<210> 54023
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-029-Q1-K1-G7

<400> 54023

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 caaccgttca ccgcccttct tggggatgct cctagtgttg acgtcaagaa gaatgtgatt 180
 gtggccatta cctctgataa gggactctgt ggtggtatta attcaacatc agtgaaagtt 240
 agcagggccc ttcacaaatt gacatctggt ccagaaaaag aaaccaagta tgttatatta 300
 ggagaaaagg gcaaagttca gctgttgctg gactcaaagg acagcattga aatgactgca 360
 actgaactgc agaagaccct atcaactaca cacangttgc cgtgctcgcg gatgacatat 420
 tgaaaaatgt ggatatgat 439

<210> 54024
 <211> 303
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H11

<400> 54024

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tgggaggaac agacttcaat cacgccgggtc aacaagtctg gaaactgcac atatactggt 180

ggggactcgc tcgggaaaac aacgctgact acacttctgg cttgcatata caattatgag 240

agctggcaga ggtacaagaa aaagatgggtg gcttgcgaga gttgattgtt gcgaaagctg 300

att 303

<210> 54025

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-029-Q1-K1-H7

<400> 54025

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gccgcactgc gcaccgagcg ggcgccgggc ggacgacgaa gcggcgaggc agtgactggg 120

gagagatgtc gggcggcagg aggagggggc ttgtgtggag cctccccgtg gcgaggtcgg 180

atgcgctcgg caaactgggc cctgccttcg gcatcggcgc tggctgcggc gtgggtcttg 240

gcttcggcct catcggaggt gcaggcatcg gagctggatt ccctggttta caattggggg 300

ttggagctgg agctggatgt ggaataggaa taggttttgg ttacggcttt ggaaaaggcg 360

ttgcatatga tgaaagtgga aagtattcga acatcaggag accggtccag agctccagaa 420

gcattgcttt cgatgagagg ttcgatatca tgtttgacga actgatggag agcaccagga 480

aactggtc 488

<210> 54026

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A1

<400> 54026

cccacgcgtt cgggccgaga aggcgggtcaa ggagcccaag aaggccgcta agtcccggaa 60

gaaggcgtag agtgatctcc tgtcttagaa caatattacc attagcaatc gtgcagttag 120

actagatcat gtttagtgta gatccgcaat gttcttgtcc ctgcagccat ctggaacgggt 180

gtatctagta catccgtgca ctttccttgc taattgcaaa aaaagcggtc taatcttttg 240

tttcaaaa 248

<210> 54027

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A11

<400> 54027

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cccgtctagg aggaagtacc aattgggttcg gcaaaagttc gagctgtctt tagtagtggc 120

agtggaaagg tggccggatg catgattaca acaggaaaag ttgttcaaga ttgtaatgtg 180

cgggttcttc gtaaagggaaga agaagtatat gtgggttcgc ttgattcctt gagaagggtg 240

aaagaaactg tgaaggaggt tgggtgctggg ctagagtgtg gtattgggggt agatgacttc 300

gatgaatggg aggaagggtga catcatagag gcattcaata ccgatgaataa gctgaatggg 360

gagctgaagc tattgtgctg aagctgttgt gagctggacc ggtggaccg 409

<210> 54028

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-030-Q1-K1-A4

<400> 54028

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ctagcatctt ggatcattcag caataatgat ggtcggccgg ttgataaatt atgngggcag 120

aaatataatg ccacccttca tgctgatggt tcgattcttg ggccgcttac aaatcttcac 180

tatgctgggc ttaacttgcc agtttggtt ataccatctt tagttcacgc tatagagtta 240

tcaaccacag actcaattca ttttctgaag caatggttga ct 282

<210> 54029
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-A7

<400> 54029

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tcttttctgt gcagctcaac tttgctgtcc ctggtataat tcatgttact tggtcatact 120
caagtaactc aactctccat tttgattgga aacaggtttc ttatttttat agttgaatat 180
aatactttgg tctgttctta aacaatagtc ttattacagg tagacccctc aggcaagggt 240
gaccctgaag tggaggattt acttctagaa atcgccgatg acttcattga ctcggtgact 300
gcatttgctg gtaccttggc aaagcacagg aaatcatcag gtgtcgaagc caaggatgtg 360
ttgctgcact tagaaagaaa ttggcattta tctgtttct 399

<210> 54030
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-B5

<400> 54030

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accatcggct gctactacaa gaataagagc tcaagagtag gaaccatcaa gcgtgagacc 120
gtgaccttgc gattgcaagc tgagatcaac cagatggtct cactcatgat caacaccttc 180
tactccaaca tggagatctt gctacaccag cttatctgca actattacga tgcgctggac 240
aatatcaggt tcgagagtct cactgacaag agcaagctcc atgcgcatcc tgagctccaa 300
atgcaccttg tcccagacaa ggacacgaac acgctctgca tcatcgactg cggcatcggc 360
atgacctgtg acgaccttgt gaacaacctc tgtaccatc 399

<210> 54031
<211> 274

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-B9

 <400> 54031

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 tgccatcgag tacagtctct ttttcgccaa ctggggggcca tagaccagcg tgacgatgga 120
 gggtccgcacc gacatgtaca acacctacct ggacggcacc aaagactacc tatctgtcgg 180
 catggcctct gtcccggcga tctacgccta cttagccgtc tgctatgtca tgttcctggc 240
 aggttgactc tacatcactc tctacctcaa ccga 274

<210> 54032
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-C12

 <400> 54032

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 gcggtgatga agagcagcac aatcgtcgcg cttctgttgg ctgttgccat tctgtcctcg 120
 ctgtctccat gctacgaagc cggcggctgc atcgggaaac ccaagaagtc accgccgccg 180
 ccgagaagge catacctctc gtcctattcc gaggaccacc agaactgccg cttgatctgt 240
 agctcgaagg gtttcaagga cggtggtctg tgtgacgaaa gcgtcgagca caaagtgtgc 300
 tgctgtccc attagaaata taatcgtg tgttatgttg atgcatatat atgcat 356

<210> 54033
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-E1

 <400> 54033

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 agaacatgga ggaaacagtg gctaacgtgg agggagcgca gggccagctc ctgaagtatc 120
 tcaacagcat ttcgtccaac aggtggctga tgatgaagat attctttgtg ctgatggtgt 180

tctcatgat cttcatattc ttcggtggctt gaccttctgt accattctgc ccgaggtgct 240
ctggccgcta tgcgtagtat tcttttatatt ttactcatac tacaccgtgt acacaatttt 300
caccctggac gataagccat cggtcaccct tttgtggcca tgtaaattgg gaagagttcg 360
agtctgttta cgttactctt gattggcaat atcttcactg 400

<210> 54034

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E10

<400> 54034

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tcataagcac acctagcgaa ggcactagc aacgacctaa caacaatggc taccaagata 120
ttatccctct ttgcgcttct tgcccttggt gtgagcgag caaatgcgtt gattattgca 180
caatgctcac ttgctcctag tgccattatt ccacagttcc tccttacagt tacttcaatg 240
ggcttcgaac acccagctgt gcaagcctac aggtacaac aagcgcttgc ggcgagcgtc 300
ttacaacaac caattgccca attacaacaa caatgcttgg cacatctaac catacaaacc 360
atcgcaacgc aacatcaaca acaattt 387

<210> 54035

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-030-Q1-K1-E6

<400> 54035

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atctgggtag ccacctacat cattctaaaa acttgattat tgcactataa ttcataacaa 120
atctaaaaga cggcactacc aatgatgggt agttactaga aagctgggtg ctttgtcaaa 180
ttatgttagt ataatagcaa ccattgacgc agttgtaaca gggttccacc gttacacgca 240
tcttgctagt aaaacgggca caactgtgct ttttttaata acg 283

<210> 54036
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-F10

 <400> 54036

 aaaaaaaaaa aaaaaataaa taaaaattaa aaaagcaaaa aaaaataaaa aagaagaaga 60

 agagag 66

<210> 54037
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-F3

 <400> 54037

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 cgtcacgcgg cgctgtctcc ccggccgcac cgacaacgcc gtcaagaacc actggaactg 180

 ctccctcaag cgcaagctcg gcgccgccga cgccgcgtcc ggttcggcgg ttgccgtga 240

 cgactgcgtc gccgacggcg agaccgaggc gcgccggggc aagatgatga tgatgagcat 300

 ctgccccgcc gaca 314

<210> 54038
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-030-Q1-K1-F5

 <400> 54038

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 atgctggcta tcaggcgtcc atatcaatac tcagcagagt cttcgaagct ttgaacccta 180

 gagcctgcgc tgttgagata gaccccatcc agagtgtgaa cggaaggtg gctattgatg 240

 cattccgcct cattaatcct cacaccatga tgcttgccca ggagccacgt cagacaacat 300

caaatgttgg gcacctaaat aagccatcta ttcaggctct tatccatggg ttgaatagac 360
 actactattc aattgcaatc aattaccgga aaaatgagct tgaggagaaa atgctgttca 420
 acttgcacaa atagaaat 438

<210> 54039
 <211> 269
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-A1
 <400> 54039

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 tcctaactct aggtcgttct agaacgggtca aggagttcct gtgtgccgag aaagaaaaga 120
 aacgatcttt tcgtgtattt gttgctgaaa gtgctccaag atatcagggc catgtttctcg 180
 caaaagagct ggttgagaaa agtgtacaaa ctacagttat aacaaattca gcagtttttg 240
 ctatgatata tctagttaac acaatcata 269

<210> 54040
 <211> 65
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-B1
 <400> 54040

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 gaatt 65

<210> 54041
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-B12
 <400> 54041

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 gctctagtgc agaagggaga catcactaac cttgctcaac aatacggagt gaacttgaac 120

gactgatgag tcattcgtgt ctttttcccc ctcccccttg gagcgatggc gcaactggtg 180
 tgatgatgat ggaataggat agcatgccat agttttggtc cggtatctgg accctccctc 240
 tgggtgtaaag actatcccaa cttaggcttg ggcttttcag ctttctttgg ctctcc 296

<210> 54042
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-B5
 <400> 54042

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 gagcatgaac atgactaggt cgggatggta cagcttcaac atgtgcttga agttgcttac 120
 aacttaacat atgttctttc gtcataagaa cttgaattta cttgtgcacg atcatatgct 180
 atctgacatg aacaaagttc ttgataaact gctaattgta atgctctgga ttatacattt 240
 ggaataaagg ggtttttgat aattgggtcca atattaattg cccttcttaa catttgcctca 300
 ttctgaattg attattgttc ttgccctggt tctgctcatt aatctcactt cttttttttt 360
 ttactttcat ttggtttatt tcacttgctt gtgtattttt gtccgttttt tttatt 416

<210> 54043
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-031-Q1-K1-B9
 <400> 54043

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 gcagtgcacg acaggccctc ctatatataa agtgatgttc tgatacactt cgttcctttc 180
 atatggaact ataaataaga gcaggtaaag aatcacttct aaggaaatac agatagagca 240
 agaagcatgg agcctccgag tgagacaaca ggagccaagt actaactgat aaaaaagagg 300
 atgccgaaag ggcactctct ggatctttct aaaatatggc tgctttgcgg tatttgaaca 360
 aatggaaata ccaaaatttt cgaagatgaa aatcaggaac a 401

<210> 54044
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C1

 <400> 54044

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 aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaagggcg gcccttcaaa aggatccaaa 180
 cataagtacg cctgcattca acgacatatc ctttatatag ctataactta attaaattaa 240
 ttgacccttg ttttaciaag tgagaactgg caaaaccctg attttaccba actaaatgtc 300
 atactactaa atccctatct caccaacaga cataaaaacc aaaaacccca tacagaccgc 360
 aattccaa 368

<210> 54045
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C4

 <400> 54045

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 tcatatcgct cacgctttcc acgac 85

<210> 54046
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-C9

 <400> 54046

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 catcttctgc gtcaccgtct ctggccagga gatctccaca cgaccattcc acctcgtaga 180

ctgggtcgat ctctaacgga accgctttca gtgggttcaa tagcccgacc caggccccat 240
gtcttggttaa caagtacatg aaaaaggaca ttaagggtgga cgagtacatt acgcacaaca 300
tgaacctggc tgacatcaac gactccttgc acctgctgca c 341

<210> 54047
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D5

<400> 54047

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tgcaggatgc tggcataaca gacctgacac aatttgccctg gggccttggt aatgatacat 180
acaagatgga ctttatectc atataccctg cctacatgat tgcactggcc tgcataataca 240
tagcgagtgt attgaaagat aaggacacca cagcatgggt tgaatagctt cgggttgaca 300
tgaacataat tcaagaatat ctctatggaa atattagact tctatgacac ctacaagatt 360
gatcctcaaa ggggcatccc tgaggattag ataagccccg tgatgaacaa tttgccggca 420
aaggcttaac tcacatttg 439

<210> 54048
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-D7

<400> 54048

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cacggtgggt aacatcgtaa ctggggacaa catgcagact cagtgggtgc attgacaatc 180
aagcactttc atgccttttg aacctactga ccaccaacca caagaaaagc atcaagaaaag 240
aagcatgctg gacaatctta aacatcacag ctggtaacag ggaacagatt ca 292

<210> 54049
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-E11

<400> 54049

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aagaagcatc tgaagggtgca gcagcctgaa gagcccgaaa acacagccac aatcgtctac 180
attgggcata tcccccatgg tttctacgag gacgagatga aagggttctt taagcagttt 240
ggggatatta agaggcttag gatcgctcgt aaccgcaaga caggaaagtc caagcactat 300
ggattcattg agtttgagaa ccctgctgtg gcaaaggctg tagcagatga gatgaataac 360
tatctcttgt ttgagcgcac cttgcaagtt gcacttggtg agccagagaa agttcatcct 420
aaattatgg 429

<210> 54050
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-F6

<400> 54050

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aggcaggagg cgtacgtgtg cgagtgagtg ctgctgctgc ggcgaccgtg tgaccgtagt 180
cgttatttgt gtgtacggaa taaagtgggtg agcgctgaga cgtgcgtgtc agcctagtaa 240
taactaaaat aatggccgtg ttcacgtaac gtgctcgacg tatgtaccat cgtgtgtacc 300
ggccgtacgt atgtacaagc cgagtgcaat aatacagtac tatgtgtatc attaaaaaca 360
caccaccgaa tacagaaaag gacacatgct gctgctttag taatgctgct agaaaattgg 420
cttgattata tcactgacag ctctagctgt tggatcttga ctg 463

<210> 54051
<211> 427

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-031-Q1-K1-G2

 <400> 54051

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 cctcatcggg gcagttgatt ctccgagagg ctctaaaact gctgccttta tatactctgg 120
 cactggtaaa aagtgtaagc ttgagaactg atgggcgatt agatgaccgt tcctattgga 180
 tatctctggg ctcgtcagtt tctgtagtac tagctgttcc tctgggtgttc cctagattga 240
 ttcttatcca tgatctcacg tncagggatg atgatgattc ctttgtacca agtccactta 300
 tgctcaaaaa gtgaaatgta caagaggatg ggggtctatct attggaaaac ggtgaagatg 360
 gtctagtcta cgtaagaaac atggtaaatac cggctaccct ggaacaaata ttccgtgtct 420
 cttctttt 427

<210> 54052
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-H12

 <400> 54052

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 ccatatgctg tagttacacg aagtcgagag cgattacaat gtttcttgct ggctgcac 120
 gttgttctct agatgccctt tctttcttgt tatttttggt tctactacta ctacaagtag 180
 acgatgtttt gtctgatga tgaatgatac agataagtca tatatatcca catatttcat 240
 ttttgtcaaa aaaaaaaaaa aaaaaaagaa aatgaaaaaa ttaaggatt 289

<210> 54053
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-031-Q1-K1-H5

 <400> 54053

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 catccttaca acgctctaata tcttctataa tgacacctaa atgcaattca ctgcccacat 180

<210> 54054

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-031-Q1-K1-H9

<400> 54054

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 tttgtgcaag cgccactagt gcgacgcata ttccagggca cttgccacca gtcattgcat 180
 tgggtaccat gaacccatgc atgcagtact gcatgatgca acaggggctt gccagcttga 240
 tggcgtgtcc gttcctgatg ctgcagcaac tgttggcctt accgcttcag acgatgccag 300
 tgatgatgcc acagatgatg acgcctaaca tgatgtcacc attgatgatg ccgagcatga 360
 tgtcaccaat ggtcttgccg agcatgatgt cgcaaatgat gatgccacaa tgtcactgcg 420
 acgcgtctc gcagattatg ctgcaacaag cagtaccatt cat 463

<210> 54055

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-A8

<400> 54055

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 cggtaccct ggccctcacg gacctaaacta gtgcggggac agagcgcaca agtactactg 120
 gccggacatc gcagacgcgc actacacagg ctgtctctac ggccggcatct acatcagtgg 180
 catcatacgg gaaggtcatg ccgtggcaat cggagttcca ggtcggacct gccgtgctcg 240
 tc 242

<210> 54056

<211> 183
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-B6

 <400> 54056

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 aataaaaaata aaaataaaaa aaattactgg taaaggaaaa aaaaaaaaaa aaaaataaaa 120
 atacaaacat aataaaaaaa aaaatacata aactaacata taaaaaata tctacatctt 180
 ttg 183

<210> 54057
 <211> 312
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-032-Q1-K1-B8

 <400> 54057

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 atcgagcaag actccaactc ctctccgac aacgcgccag caggaagcaa ggccaagacg 120
 gcgtcttcgc gagacaagga ggaccacctg gcgagaagct gctgcacgcc gcgggccgtc 180
 tgcgagagca gcagccagct gagcgagcca ccaggaggag ccagcatgag ggccatgagc 240
 gtcgccgtcg nccgcgtgg agcgcccatg gggttattcc agaacgagcc tggccacgac 300
 cagcaccacg ac 312

<210> 54058
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-032-Q1-K1-C1

 <400> 54058

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 ttcgatagtg cagcagagct aagagaggaa ggcgaaaaag ctcgggttga actagcagaa 120
 gccgaacaaa agatgcaatt ggctttaaaag gaagcagaag aggctaaagc agctgaagca 180

agagcccttg atcagatcaa gcaactctcg gatagagcaa gtgctgctag atcctcaaca 240
 tccgagtctg gagcaattat cacaatttct aaagaggagt ttgtatctct cagccgaaag 300
 gttgaggagt cagagaagtt gagtgatatg aaagttgctg ctgctatggc tcaagtggaa 360
 gccatcagag ccagtggaaa tgaggcaatc aagaaactag aaacttgccg caggaaatgg 420
 atgacatgga attgcaacag 440

<210> 54059
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C2

<400> 54059

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 taaaacttag aactacaaat actactacaa caacgcaccg agaaagaaac aaggccaaga 120
 cagcgtattc acgagacaag gaggaccacc tggcgagaag ctgctgcacg ccgcgggccg 180
 tctgcgagag cagcagccag ctgagcgagc caccaggagg agccagcatg agggccatga 240
 gcgtcgccgc cgccgtcgct ggagcgccca tgggggttatt ccagaacgag cctggccacg 300
 aacactacca cgacgacagc ttcatgagcc tgatgctcaa ggagcaacga 350

<210> 54060
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-C3

<400> 54060

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 taatttttaa aaaaaataaa aataaaaaga gataaaaata aggcaacaca catatcgtgc 120
 gcacaagctt aaaaaggcgg accagttcaa cgataacgac cttatggaga gcgtgactcg 180
 tagctccttg ttcaacttgg ttgtacattt aagtatagtg cgcaaaacac ctttcgtttc 240
 caccatgttc tccagctaca tgcaatacat cttcggttgg atcctcttct tcggaatacc 300
 ctgtatcgtc atcgtcttct caatcgttct gttcctgctc gggaccattt cataccgctt 360

gtacacgacc gttgcggaca gcccttctc tt

392

<210> 54061

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-D3

<400> 54061

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ttatctgata tatactacaa cagctgatgg agcaagggaa atgacttcac acttttttat 120

tgattctgaa tctgatgcat ccttagtgta gcactttaga aggttcatta agctgggata 180

ttcttgcatg cctcacgaaa atcacttttc tatctagaga attaggttta ggtaaagaca 240

ttaccttata ttcgaccata atgtcaagaa tagcagcatt ttagatagca taccctcgat 300

atgtcgatac cattttgttt tataaaaagt gatgtttcat gtcgtatatt tgttaacaaa 360

agaacatttg cataatactc 380

<210> 54062

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-D4

<400> 54062

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cacctcttac gaggcgacg gcaacgtcgt gaccgccaac ttcacctgct acgccggcgg 120

cgccacgggt ggttcgggct ccttcgccgc ctacgccgac gagaccaacg tcccggactc 180

caccttcacc aactacgacg ccgncgccaa cggccggggc cggagcttcg cgtectactc 240

ccaggaggcg aaccatgggg agaacggctt ctccggctac ggcaagaacg gcaacggcgt 300

gcgcgagacg ttcaagtcct acggcaatga gtccaacgtg ct 342

<210> 54063

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E11

<400> 54063

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aagctcatct tatcatggtg aacgaggatt ggctcgtagt tacatggatc tccatatcag 120

tctgtttat ggacggcgat ggctgtacga aacttggcgg cggtgccatg gttcagaaag 180

gtacattgtt tggatccgac actagcatgg tgctagagac acagaccgtc ggagcaggta 240

gcgtggcatc caatctagca caatgtggca cttgc 275

<210> 54064

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-E2

<400> 54064

cggaattccc gggtcgaccc acggtacgg gcggcaagct cccaccaac ttccgcaagc 60

agctcactgt gcagctgaag aagctcgctg ccgccggcaa gctgacgagg gtgaagaact 120

ccttcaagct gccggccacc gacgccaagc ccaaggccgc caagcccaag gcaccaag 180

ccgcgcccga gcccaagccc tcgccgaagg cgaaggccaa gaccgctgcg aagcccaagg 240

cggcgtcgcc caaacccaag gcccaaggcca aggccaagcc tgtcgctcct gccgccgct 300

cgcccaagcc ccgcgggcgc cc 322

<210> 54065

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-032-Q1-K1-E3

<400> 54065

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ttctgtgct tcccagcag cgcacgggg acagccccca gtcggcggcg attcggggcg 120

tgacggtgag ggcgtccgcg gagacgatgg cgacggagaa gctgggtatc aaggtggagc 180

gcaacccgcc agagtccgcg ctctccgagc tcggcggtccg ccagtggccc acgtaagcga 240
gctacccgcc ctctctccctc ctcccgggcg tctcggtctc tgttctcgcc cgcggtccta 300
cgctgctaca ctgcgcccgt gccctgacgg cgaatccgcg ctgggtgaatg aatggatggg 360
tccgtccatc aggtggnggt gcgagaagag caagttcccg tggacctac 409

<210> 54066
<211> 381
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-F10
<400> 54066

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catccccacc gtgctcatct tcaagggcgg cgagaagaag gagagcgtca tcggcgccgt 120
cccaaagtcc acgctcacca ccctcatcga caagtacatc ggtagctcat gagcatgcca 180
tgcattgatg catcgacgac taaacacata tgtgtatctc tagtagcctt tgcatacggg 240
atatgatcaa ttcaagcagc cagccgtctg ctactgctgn gttatatata ccatacctnc 300
atgtcgaatt ccgaggacct ttaatagggt caagtcacga attccaatca gtatatatat 360
atcaatgcct ctgggtggat t 381

<210> 54067
<211> 434
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-F2
<400> 54067

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actcgtccaa caatggcagc caaaaatattt ggctacttta tgctccttgg tctttctgca 120
tgcgtgatt cagcgaccat cttcccgcaa tgctcgcaag ctactatagc tttcattatt 180
tccccgaacc tatcaccagc cgcgtctacc gtatgtgaaa acccaattct tcaacactac 240
aagatccaac aggcaatcgc agctggcatc tcacctttat cacccttgct ccttcaacaa 300

tcatcagccc tattacaaca attacctttt gagcatttat tggcacaaaa catcatggca 360
catcaactac aacaacgtgt gctagcaaac ctagctgnct actctgagca tcagcagggt 420
cattcattca acca 434

<210> 54068
<211> 360
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-032-Q1-K1-F3
<400> 54068

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gaatccatcg ggcgtgttga tgctacatct gccgccactg tttctgaatc tttaacaagaa 120
agctccaata ctttccacgt cgaaacgaca gcaacggaag ccgcttaatt tgccggtcat 180
cacctcgggt ctgtcgccca tgggtgaaac atgcacgaaa acacggtggt agtagtagta 240
gaatgctttc tcttgtacat cgatttgttt ttgtgaatat tgcaaaatcg gttttagaaa 300
tccaatgtca tggtgaggcg gccgttgatg cgccagagcc ctgctttgga gctccgacng 360

<210> 54069
<211> 288
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-032-Q1-K1-F5
<400> 54069

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atctatcggg cgtggcgatg ctgcatatgg gggcagcgtg ttatgaatct ttgcaagaaa 120
gctacaatac tttccacgct gaagctgaca gatgcgcgtg gcaggtgaat tggccggaca 180
tcacctcggg tctgtagtcc atggtggaac catgcactac aacacagagg tagcacaagc 240
agaaagcggg ctcttgtaca tcgagatgac aatgtgaata ttgcaaaa 288

<210> 54070
<211> 206
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-G11

<400> 54070

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attacatatc tgatacccat agattacagg gaaatatgat gatatcgata gggaagtgaa 180

aaaaagggtt aagagaaatc gacatg 206

<210> 54071

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H12

<400> 54071

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tcaagtccaa cgaccccgctg ggcttcaacc tcgtcgacgt cctcgcctgg ggctcgctcg 120

gccacatcgt cgctactac atcctcgcca cctccagcaa cggatacgac cccaacttct 180

tctgagcggc cggctgcggg catgttcttg agcctgctg tattctactc cgtgtgtgtt 240

gagccatata tctgatgctc aaggattggt taatttgaac aagtgggtgca actgcgcgtg 300

tacatggatt tgctcttctt ctatgtctct gtcaaaa 337

<210> 54072

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-032-Q1-K1-H2

<400> 54072

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gcaagaacca acttttagtg cccaatgcgg ccaagattgc caacgcctcc gaaattccgg 120

ttctcgcgt cccactagc acttccaagg ccgcaatcct ggcccgaag gccgcgcttt 180

ggcgggacgc ccttgteccc gttgccggcg ccttcgcgtc ctgtccgctc ccttcctcgt 240

cggcggaggg cgacgggaaa gtgagcctcg agtccatcgt ggtggcaatc gacgacttca 300
acaatcgcaa ccccttcttc gtggctgggg tegtgttcgt gtggctagtgt gtgatccgc 360
tcctgcagga gtacgtcttc aagaagtaca agcccgtagag cgccatcgac gcgtt 415

<210> 54073
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-032-Q1-K1-H4
<400> 54073

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ttcgtgaggt tctccgggggt tcgggttgggt ggggtgagcgg atcgagatgg cagcgtcgga 120
tgttgagtac cgctgcttcg tcggcggcct cgctggggcc acggacgacc actccctaca 180
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gcagaggtcc cgcggtcttc gcttcgtcac cttctccacg gaggaggcga tgcggaacgc 300
catcgagggc atgaacggca aggagctgga cggtcgcaac atcacgtca acgaggccca 360
gtcccgcggc ggccgtggag gcggcggctg tgggtacgggt ggtggtcgtg gaggcggcgg 420
ctacagcgggt 430

<210> 54074
<211> 399
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-033-Q1-K1-A11
<400> 54074

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gtgttagcca cacctcgccc catccgaagt cccacctaaa gaagcagaga gatagaggca 180
acaatggcga aagacgggct gagcaagctc cagcgcata tcaacaggta aactcgtcg 240
accgcgcatc tctcccacgc cccgtctgca tcatcagctc cactacggct ccactactg 300
agactcacac tgcgctcga tccacagcgc agacgaggtg tccaactgcc tgcacccgggt 360

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399

<210> 54075

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-A8

<400> 54075

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gaccttgctg gtgagttcta ttcaagaaca gaggaccagg tcatcgcatc cattccaact 120

atthttgctgg aatttgagaa tgggtctcaag aaactgtatg accaaggtgc taggaagttc 180

tggattcaca acacggggccc cctcgggttg ttgcctcaaa acattgccct cttcggcaaa 240

gacccatccc aactggacga gctccactgt gtggcggaagc acaaccgtgc cgcaaagctt 300

ttcaacttac agctgcacgc actttgcacg aagctgaggg cagaattcga tggagccagc 360

atcacttacg tggacattca cacgatcaaa 390

<210> 54076

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-B2

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aaggacatcc tgaacctggt gtacatctgc tagtgcaatg gcctgaccga ggtggccaac 240

tactggaagc aggtgatcaa gatcaacgac taccagaaga gccggttcgt gaaccgcgtc 300

ttgtcgtcca tgttcaacac cgttgccggc aagaagatcg cgttcctcgg cttcgccttc 360

aagaaggaca ccggcgacac cagtgaagcc ccggccatcg atgtctgcaa gggcctgctg 420

ggtgaca 427

<210> 54077

<211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-B8

 <400> 54077

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 cctcctgtta ctctcgggtt gcgcgtccct cgcgatcgga ggagcagcca tggccggcca 180
 cgtcctcggc ggcgtgaagg agaaccacgc cgcgccaac agcgccgagt ccgacgggct 240
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<210> 54078
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C11

 <400> 54078

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 tcagcggcac ggcgttcggc gccatgggca agcccggccg caacgacgag ctccggcacg 180
 ccggcatcat cgacatccag ttcaagaggg tgccctgcaa ctaccccgga cagaaggtga 240
 cgttccacgt cgaggagggc tccaaccccg tctacttcgc ggtgctggtc gagttcgaag 300
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<210> 54079
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-C12

 <400> 54079

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tccagatggt gctgaagcac agggcccagt tgctgaggag gacgacgacg atgatgttga 180
cctttttggt gaggagaccg aagatgagaa gaaggctgct gaagagcgtg ctgcagctgc 240
caaggcttct ggcaagaaga aagaatctgg gaagtcatca gttttacttg atgtgaagcc 300
atgggacgat gagactgaca tggccaagct cgaggaagct gttaggagtg tccagatgga 360
agggctgctc tggggcgcat tcaagcttgt cccagttgga tatggtatca agaagctgca 420
aatcatgatg acca 434

<210> 54080
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-C7

<400> 54080
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tccacttctt cctacacact cggggacact gctcactatc aacttgtgac taacatgcc 120
agctaaactt cctcttataa gagacctcaa ttccacctt ctccctctca ctactacc 180
aaaccttaaa cactatcccc cacatgttgt atcacattta cctgactaac tacacctacc 240
acataaacct caacagcttc a 261

<210> 54081
<211> 116
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-033-Q1-K1-C8

<400> 54081
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cattaataaa gacatagtag tatcacgttt ttggaaaaaa aaaaaaaaaa tcaaca 116

<210> 54082
<211> 305

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E10

 <400> 54082

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 aggaatctgg gccatgactc catggcaatg aatcaaaata gtacgagccg catcatgtgg 120
 acaaccttgg cagatctttt tattcttgtc tttattgctg ggagcactgt agctttaaac 180
 ctacaagtag tgcttgaatg agatgagatt catatcatct cctgtgggtg aatgtgaaat 240
 tgtatgcgac ctttagacta attaaaaagt acaatacagc gctaagcata ctgcttgtat 300
 taaaa 305

<210> 54083
 <211> 475
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-033-Q1-K1-E12

 <400> 54083

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 aggtgggtgt gactttatag tgtactttgg acagtcagaa accttcagc ctcagcatga 180
 gtcccattag ttccactggg catttcttga tgctgttctg gttgataatt ttgttgacct 240
 tgectcattg ccgtaatcta caataaggaa aaaaagctat tctttatttc ctttgggaaa 300
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 tcttaatagg gctgacatag ggaatagtta gggtttcaat gtttcatttc ctttccaagc 420
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 <400> 54084

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 acaggttcaa tgctgaagaa actagaagaa gaaaaaggca ttgtagtacg ttttgttgtt 240
 ggaagaagtg caaatcgagg tgatactttc gatagggaga ttgatgacga aaataggagc 300
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<210> 54085

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F12

<400> 54085

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 caggacttct tcaacggcaa ggagctctgc aagagcatca accctgacga ggccgtggcg 180
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 ctgctccttc tggacgtcac cccgctgtcc ctgggcctgg agactgccgg cggcgtgatg 300
 accgtgctga tccctcgcaa caccaccata ccaacgaaga aggagcacgt gttctccacc 360
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<210> 54086

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-F9

<400> 54086

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 tgtccaacat gctcatgtgg ctgccagaac ccaagtgggt caaactgtgt gaatgaggat 180
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caatgcactt cccacatgtg cccgataaga atccactggc atgtgaagct caactacaaa 300
gattactgga gagtgaaaat cactatcaca aacttcaact tccgcatgaa ttacacgcag 360
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<210> 54087
<211> 370
<212> DNA
<213> Zea mays
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<400> 54087

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cttcagcccc taagcctact caagctcctc caaatgggtg aatacggaaa cccaatcttt 180
gtaaacaatt tacttttaac gctcagggtt taatggaagt actcatgac caacttattg 240
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ggtattacaa 370

<210> 54088
<211> 429
<212> DNA
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<223> Clone ID: LIB3079-033-Q1-K1-G12
<400> 54088

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acattggcac ccccggaag ggtatccttg ctgctgatga gtccactggc accattggca 180
agcgcccttc cagcatcaat gtcgagaacg ttgaggagaa ccgccgtgcc ctccgtgagc 240
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ccctgtacca gaagaccaag gatggcaagc cttttgttga tgtcctcaag gagggaggcg 360
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ccaccacccc

429

<210> 54089
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G7

<400> 54089

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tagccgcaaa acgcggacgc gaaattgaag gctctccgct acattgtaaa aggcaaggaa 180
ctctgcatct ggtacacata ctctagcata gatgccgacg cataacctac tattgatgat 240
gatcgatacg acttgcaatt ctactatctc caatgtttgg ccagagacta ctcttgggtgc 300
ctacgagaaa gacaagcatg actttggatt ctattgtagc ttattgaagc cattc 355

<210> 54090
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-G8

<400> 54090

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gagtcatacc cagatgcatg aaaactcgtg aacgcaatag acatcagaca ctteggctac 180
tttcagcgca gagccatgcg tcagttcatt gacttctagg ctgcaccat ctgtcagctc 240
accagccat gccagcggca gtcccttcag cgcgaaaaat acaaggtgca ctcatacaat 300
ataaataggc tgtgtacttt gcattgatgg atgacatta t 341

<210> 54091
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-033-Q1-K1-H2

<400> 54091

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acaaaatact gaacaataac aacgttttagt catgcactca aacaaagtcg acacttgact 180
cacaaaaagt atagaaagag ctatatcctg atgagcccta cgaatcggac ttcacaagaa 240
cctacgacac tgacgctgat gtcaaccctg catgatcaga cgatgacatt acctatgatc 300
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<210> 54092

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-B4

<400> 54092

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acgaaccctt ccaccgtgtg ccaaagaag ctggaaatcg atgactacca gaacctgcgt 180
gccttttatg accgaatgat atcccacgaa gtcagtggcg atgctctggg tgaggagttc 240
aagggtatg tcttcaaat catgggtgga tgttacaagc aaggcttccc aatgaagcaa 300
ggaatcttga cttctggacg tgttcgactt ctgctccata tggggactcc ctgcttacgt 360
ggttatggca agcgtaat 378

<210> 54093

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-C4

<400> 54093

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actatgacta tatcatctgc actagtatga ttacgtgcac aaagcgttac acatcattct 120
acaccatctg ctctacaac tccacctata aaatcttgat gaatcctttc actggcacca 180

gcactttcga ttccagtacc tactttgctt gaaccatctt aattatatgc tacaacttct 240
aataccctac aagctgctgc ctaatgtgca ccaccaacaa tgtcatatgc tcaacctact 300
acacgcatta agctatcatg tctatctaca gctactttta ctact 345

<210> 54094
<211> 404
<212> DNA
<213> Zea mays
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<400> 54094

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acacgcgtgg gctacgtacc tacccgaggg caccgagcgt actgtgccg acgtaccccg 180
tcggcgacga gcaccgatct gcgctacgac tacggcaact tctactcgta caagacgttc 240
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gacgacgatg tggccaaagg ctggtctgga atccaggcga ttccaaggac ggtgtggctg 360
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<210> 54095
<211> 369
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-034-Q1-K1-D9
<400> 54095

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actaagccgt agcttgacag atatgctgat gtccatgttg acattcgact gagatgaaca 180
tatacacgaa tgcaattaac gtccacttac atacatctga tgaatcctaa gatgacatat 240
gtcttacacc ttctgagatt ccccttttaa cacatccaac ttgtgaaaga ccatctttat 300
acgccaccat gatctcttgc agctaataa aatacacatg gatcacgatt aacacgaaaa 360
gatgatgaa 369

<210> 54096
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-E1

<400> 54096

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ataatttttc ttatattctt ttttcatttt taattataaa atttttaaat ttcttttttt 180
ttttttaata tttttttttt tctatctttt ttatcttttt atttatcttt tctttttaat 240
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<210> 54097
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H2

<400> 54097

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gaacagcatc cggtttcaag tcatagtagc ctcttatatg ctcacggaaa atacctctat 180
gttgatggcg acggatctga tcccgagaaa tcatcaaacg ctgacggata taatgcagtg 240
gcaacggttg gagggtgctg tgaccacccg agaatcgtgt gcagtcgacg cgtgttccgg 300
atcgtacaac actggctgca ctctggagaa cctgaccctg tctacgacct gctgagcgac 360
tatgtcatat ttccaacact cttcgaaatc gagaaacatc ctgagaaaca cctggatgtc 420
acgttcgtaa cggaagactg ggagatca 448
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<210> 54098
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H4

<400> 54098

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cctctgggac ccctttgagg gcttccccctt cggctccggc aacagcagca gtctcttccc 180
ctcgttcccg cggaccagct cggagaccgc ggccttcgct ggcgcgcgga tcgactggaa 240
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<210> 54099

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H5

<400> 54099

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<210> 54100

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H8

<400> 54100

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<210> 54101

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-034-Q1-K1-H9

<400> 54101

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tcactggcta cgagcaccac ctgaggatta tggattgact ggggcagaag cgcgccgata 180

tgctcatgga ggcgctgctt gcggcgcttg ctgaggcagc attcgtcgtg ggctacgttc 240
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acactgtcca caactgacgc tgcttcaagc gaaacccgct taagtggctc gaccctgacg 360
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<210> 54102

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A11

<400> 54102

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tgctgggttta tgatgtcacc gatgaatctt attttaacaa catccgaaac tggattcggg 180
acatttaaca acacgcctct gataatgtca acaagatddd ggttggcaac aaggcctata 240
tggaacgaaag caagagggct gtacctactg caaaaggaca agcacttgct gatgactact 300
ggatcaaatt ttttgaaacg agtgcgaaga caaacctgaa tgtggagcaa gtgttttttct 360
acatgcacg tgacatcaag cagatgcttg cggagactga ttcaaaggca gatgacatgg 420
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<210> 54103

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A12

<400> 54103

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atacttgact gtgcatatca ctgtcccaat ttcaggaggt ctattataca tggaccaccc 180
attgacctct gcacccttca taatacgcaa cataatcaaa tttcatgtgt tcttcacaca 240
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gtatatctag actctattca gctgcacgct gaagatactg tactcactgg tgaagaccaa 360
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<210> 54104
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-A7

<400> 54104

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ggatgaagga atgtcagta 439

<210> 54105
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B12

<400> 54105

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ctcaaatact tatatactaa tgaactattc aatcattatt attaaacact cacatagagc 420

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<210> 54106
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B7

<400> 54106

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cacagtggaa agaattaatg gttgc 325

<210> 54107
<211> 460
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-B9

<400> 54107

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acccgaaccc ggtgatcgcc ggccggcgcg ccaactgcaa 460

<210> 54108
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-C10

 <400> 54108

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 cccggcatac catcaccagg aggatgagct aggatagcct acattaccac atgcatccat 180
 tcgtacataa tcaagcataa tcacgtttct tgcattcaac tatataaagg aagtctaatt 240
 atatatctac agctggctgt aaaaatgctg ttatgtaccg caccacttcg attttttttg 300
 aactccact tgtgaatgat gtaaacttga ttgaattgaa ttatttgcaa tttggaaaaa 360
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<210> 54109
 <211> 241
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-D12

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 catattaatc accatcagcc tctaccactc aactagcctc ctcgaaacatc attcattaca 180
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 c 241

<210> 54110
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-D6

 <400> 54110

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 atgcttgctg tgggtgtcatc aagaaggcaa acgtttcttg cttgtgctcc aaggcacca 180
 aagaaactga gaaggttgtg tgcattggaga aggttgtgta tgttgctgag cagtgtgaaga 240
 ggccatttga gcatggcttc cagtgcggaa gctacaaggt tccagcaaac tgatgatatc 300
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<210> 54111
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-E1
 <400> 54111

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 ttctctttcc ctactttttt caatttcttc tctattaaat ccctttccct cccctactta 240
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<210> 54112
 <211> 188
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-035-Q1-K1-E6
 <400> 54112

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 catctgactt acccttatca tacccttaac ttaataacct actctctcca aatcttatat 180
 tataatta 188

<210> 54113
 <211> 253

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F12

<400> 54113

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 cactgatctc gactgatgaa cctactacat tcacctgcca aaccgcatgc tcctcattgt 180
 acctactcat ccatagcctc ctttagatac aaccacaca catgctgctt attgcactac 240
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<210> 54114
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F2

<400> 54114

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 agtggtaaaa gactttcatg tccatacata tactgctggc gaaacataag aagcatgtga 180
 ggtagctcga aacagcatag aacttcattg aactgctctt tcctcttatg ctgagcatga 240
 tgctctaaag gatgactcga cgaccactct catgcaacac tgctaccgat ctcagcacac 300
 tctgcatatg attattgata gcgtcggaga caatgaagct gcgctatctg aggtctagag 360
 cgtgaacgac gagatcgata gcgtattat 389

<210> 54115
 <211> 489
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-F9

<400> 54115

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 aagcttttat ctttcactag aatatcatca acagtcgaga cagctatgga ggatgcgctt 120

cttcgtatatt tgaccccaag gcgctctatt gacatactga gggacgtgca cgctgccaag 180
gagcgtggga ggccatatgt tattgttttt gttgggggtga atggagttgg caaatccacc 240
aatcttgcaa aggttgctta ttggcttctt cagcataacc tcagtgttac acttgacagca 300
tgtgacacct tcagatctgg tgctgttgag cagctgagaa ctcatgcaag gaggcttcag 360
atacctatat ttgagaaggg ttatgagaaa gatccggcag ttgtagcgag ggaggctatt 420
caggaagcaa cccggaacaa atcagatgtt gttctgggtg aactgctgg acgtatgcaa 480
gacaacgag 489

<210> 54116
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G12

<400> 54116

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ctaaaccagc ttcataattcc cgcaagctta ttattaaatc accgaccacc acaacaatca 120
caacccttct tctctacct aactctccac cttcat 156

<210> 54117
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-G8

<400> 54117

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cttgactggc atgacaatca gccttgggtt ggagtctca gacaccattg acaatgtcaa 120
ggcaaagatc caggacaagg agggcatccc acctgaccag caacgtctca tctttgccgg 180
caagcagttg gaggatggga ggacccttgc tgcataccac ccctaagacg caggatcaag 240
tccatgttgt ataactacct agaggtgcga ttgcgagtgt aacggtggaa gtgcaagaag 300
ctaacagtga agccgtggtc agctgccaca aggtgctc 338

<210> 54118
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-H10

 <400> 54118

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 cggacgccag ccgcccagca gccaccgcta gtccggtgct ccgctagccg ctagggcagg 120
 gcaagtgtgt gttgtccgcc agcctgaccg cctctccgcc tccggtgctc acccagtcgg 180
 ccagtcgccc gcctcgtcgg ccgcgcctc gccgcgcgca gcgcgtgcc aggaaatagg 240
 ccgccaggcg cccgcagtgc ctgtccggcg tggtgacgtc cgcctcaagc tgtcagactg 300
 ccgctcgacg ctcgttacgc acgcctcag cccgctagt taaggatcag aaagtctgcc 360
 acaggcaaca agtgaggaa ctagcctagc tacgaggatt caaggaacat gggagaaaat 420
 ggggtacaact aggacaacag c 441

<210> 54119
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-H12

 <400> 54119

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 accactgcta ctctccctac ctaggctagt cacctacctc atgcgctcac tgctcttcat 120
 gcaatttcc tctactacct tacctatatt tacaagcttc tccttcacaa cttatgctac 180
 aacagcttca atccaattac atttttgcga aactatcttg accccac 227

<210> 54120
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-035-Q1-K1-H4

 <400> 54120

 aattcccg gtcgaccacg cgtacgaaaa aaaacataaa agaagcatgc aaaaatttag 60

aatagaacca agaatggcaa gacaatcagg cttgaaagag gagtactgag acaccattga 120
 caatgtcaag gctaagatcc aggacaaggc gggcattcca cctgaccagc aacgtctcat 180
 ctttgccggc aagcagttgg aggatgggag gacccttgct gcataccacc cctaagacgc 240

<210> 54121

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-035-Q1-K1-H7

<400> 54121

tgaattcccg ggtcgaccca cgcgtacgcg tccagttata aatactctcg caaaaggctt 60
 agatatacgc ctcaaccata aggtttcggg aattggtcgc caccggaaca gggtagaggt 120
 tactgtaagc agagggcaaa cattcgacgc agacgctgag aggacactga tacgctgggt 180
 gtactgaaag tgaaaacccat cagatttgag ccgaggctgg catagtggaa agaagaggca 240
 atcagagaac tgacgactga agttgacaac aaaattcgtc tgcactttga ccactttttc 300
 tggcctaacg tggatttcct cggcgtcgaa acctctacca cgtatggttg cagctatttc 360
 ctgaacctgg acaaggcaac aggccaccct gtgctagtta catgcctgct ggccgacttg 420
 ctcgtagcat tgagaagatg tcagatg 447

<210> 54122

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-A3

<400> 54122

tccggaattc ccgggtcgac cacgcgtccg cccacgcgtc cggcacatac tgtgctgctg 60
 ttaccattag aaatataata acgtatgtga ggccggtgca tatatatatg catcatccat 120
 ctacctgcgc ggtgcaaaat tctgaataaa acctgcataa aacctgattg agcacaaaca 180
 acagcagctg cagctgcaag cccacgagc aagaggatcg ccctggtgac ggtagggaac 240
 aacggcatcg ggctcgagac gtgccagctg ctgtcttcca gcggcgacat ggctgtactg 300
 accgcgagga accaggcgag gggatttg 328

<210> 54123
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B11

 <400> 54123

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 aattaaaaaa aaaaaaaaaa aaaaaaaaaaag gaaagaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaataataaa aaacaaaaaa aaatttaaaa aatataaaat 240
 ataaaaaatt aaataatatt taaatatatt aaatatataa aaaaatttaa taattaattt 300
 atttgaaata aattctagaa aaaatattaa acaaatatca aatatatgta tcaatataaa 360
 aaaacaatat aaaaata 377

<210> 54124
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B12

 <400> 54124

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 ttcgtttctg tccgcgacag ctcgcttata gcttgggtact ttaccactgt gagccatgtc 120
 aacccccacg actccaacaa ggtctactct gcccatctca aacactacgt catgatcgat 180
 cttaccaaatt ctgttcacat tgacaacact gccatgttca acgaactcac tccttatgac 240
 tatgtctgct actacatcat ggctgcatct gtatcaagga agatctaatt gacacatgcc 300
 attcgtgttg atcgcttcca gaataactaat ggtgcccata acatgaattg ctcacgtcca 360
 cctcacttct gcaagaacat ttgtccatc tcacgcaaca tccttcatca tctgcaggac 420
 atgaacatca ttgatgtcga tccc 444

<210> 54125
 <211> 427

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-B7

 <400> 54125

 aatacccggy cgcaccgacg cgtacgcaga gtgtgtgttc agcaaagag ttggctttat 60
 tgccgcggg tccacgagg ggaaagtaaa cattagcatc gtttcctccg tcgtcgatag 120
 agctctgttc gtctcccttc gtataaattg cgcaccaccg ccgcaccttg aagaccgccg 180
 cgctgttcgt cgtggtggcc cgtctcatgc aacgactagt acgccgatcg cggcctcaaa 240
 gacctccgc caccgctatg acttgaagcc ctctccatg ccaatcaaga ttcattggtga 300
 acgacatcca taacagagac gggattgtcc tcggaacctc aagaggaggg catgacacta 360
 ctaaaatcat tgattgtctt caggaccgtg atactaacca gatttatatt attcaagatt 420
 cgatgtg 427

<210> 54126
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C1

 <400> 54126

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 gccgcagcag gatattgtctg gcgcaggcgg gaccaggtgg cccggtggca atcaaactta 120
 caaccctttt gcaccaacgg ctgcggcggc ggctcagaga gcggaggctg accctgagta 180
 cgaggatctc atggcatcag ttggcatgaa gtagcgaaga ctgctggctg gcccctgac 240
 tgtctgtggc acaaacacag aggcttcttc ctattgcttg ccaagatgtg cgggttacta 300
 atctctcca atgtatctct agatgggtact gaattccgtt ccatcataga cagggtgcat 360
 gcttgaacga aaaacataaa taaaaaataa actagtggac cttgtttgag ac 412

<210> 54127
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-036-Q1-K1-C10

<400> 54127

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tataaggatt caaatgtgat gtctacttta ggagagttct attatgacct tgacaagatc 120
aatgctcata ccttccaact agagagaacc gctcaatcac gtgttgtaa catgggttcag 180
cttgatatct cctcaaacca tgggaacttg gaacttacat gcatctatcg cttcaggggtg 240
catggcataa agcccgtcta ctccatcact ggacgatgaa gccctgagct gatacatgcg 300
tgccatatcg cgacaacatt cttgc 325

<210> 54128

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C5

<400> 54128

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tgagagacct caatgttacc accgtatctt tgtctttgtt ggatggagag atttaagcac 120
cttaccacac ctttgttctt tgttggttg atagttttaa gcatcacctg tttgaagtgtg 180
aaaaccctaa cttaaaa 197

<210> 54129

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C6

<400> 54129

gggtcgaccc actcgtccga aaaaaaaaaa aaacaacaat atatatttaca tttaaaaaaaa 60
aataaaaaaaaa aaaaaaaaaa atgaaaatat cataaa 96

<210> 54130

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-C7

<400> 54130

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agaaataata taacctttga agggcagggc gcttcatcgg tactattaac tataactact 120
ctaactaagt caaatcatt catctataaa tagcgacctg ctcaaactcat atctacactc 180
cccacatcat ttttacctgt acctctctaa ctaaaattat tc 222

<210> 54131

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E1

<400> 54131

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gcttccacta gcaatgtaaa tgctgatgac acatatattc cagatggaag tggcagatac 120
aagctgatgg cgttcgtgag ccatatgggc acctctaccc actgcgggca ctacgtagct 180
catgtcctca aagacgggag gtggacaatc ttttaacgaca gcaaggctgc agtatctgtt 240
gacctgccca aggaaatggg ctacctctat ttctttcaga ggattagcaa ctaggcacgt 300
cacacacaat ggaaagaatg gtgggctggt aggatactgt cttgctgatt ttaaagcgaa 360
cgtttactca aaaa 374

<210> 54132

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E12

<400> 54132

ctcgggtccgt gaattccccg gtcgactcca cgcgtccgtc gagaactcca tttcgatctc 60
atattgaaatc aaccatcctt cgtttcctcc gtctagcagc gctgtcaccc tcatggccaa 120
gatcaagatc gggatcaatg ggtttggcag gatcggaagg ctggtggcca gggtgccct 180
gcagagcgac gacgtcgagc tcgtcgccgt gaacgacccc ttcacagca ccgattacat 240
gacctacatg ttcaagtatg aactgtgca cggacagtgg aagcaccatg aggtcaaggt 300

gaaagactcc aagacccttc tctttggtga gaaggaagtt gctgtgtttg gctgcaggaa 360
ccctgaagag atcccatggg gttcggttgg cgctgaatat ggtgatgagt ctactg 416

<210> 54133
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-E7

<400> 54133

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ttaaactata ccctgtatac atcccacacc atgaaacgtc tcatcattaa cttccacgcc 120
atgatacctc acatccatat acctaatatc ctcacgatca tgatctctta gatgatctaa 180
ctacaacttc actcccacgt catctacccg atcatgcttt aacatcattc actattcatt 240
cacaacctaa tggacatgac catttcaacc attttcttac agcaaccct 289

<210> 54134
<211> 467
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-F10

<400> 54134

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tggctcacta caagatcgtc ttacgggtga ggcataaaaa aggaaagttc ttgattggcc 120
cacaagacta tctgtttgca ttggtgctgc tagagggcta gtatatctgc acaattttgc 180
agggcgttgt atcatacaca gagatattaa atcgagcaac atacttctgg atcacagcat 240
gtgtggcaag gtagccgact ttgggttttc caagtacgca ccacaggaag gtgacagcaa 300
tccatcaatg gaagtgaggg gaactgctgg atatttggac cctgaatact attccactca 360
ggtgttatca accagaagcg atgtcttcag tttcggagta gtcctgttag aaattgtgac 420
aggaagagaa cctcttgatg tcaaaaggcc tcgtcatgaa tggagct 467

<210> 54135
<211> 366

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-036-Q1-K1-F5
 <400> 54135
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 gcctaacatg atgtcaccat tgatgatgcc gagcatgatg tcaccaatgg tcttgccgag 120
 catgatgtcg caaatgatga tgccacaatg tcaactgagac gccgtctcgc agattatgct 180
 gcaacagcag ttaccattca tgttcaaccc aatggccatg acgattccac ccatgttctt 240
 acagcaaccc tttgttggtg ctgcattcta gatagaaata tttgtgttgt accaaataat 300
 gagttgacat gccatcgctg gtgactcatt attattaaca ataaaacaag tttcctttta 360
 tcaaaa 366

<210> 54136
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-036-Q1-K1-F9
 <400> 54136
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 atttgtcttt caccacatgt tttccttgca tggagtaata tacgatattt atgtaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagaa aacttaaaaa 240
 aaacataaaa acgataaaaa taagtgactt aaaataaaat acagaaacac aaaattcaaa 300
 aaaaattaaa actagtaaaa caccagtaga cacctaatta aatggccaaa ccgaatattg 360
 atcataacaa atacttacgt caaaacaaag agttcttcac aattggcctt ttcc 414

<210> 54137
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-036-Q1-K1-G7
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gataggcaac tagctgcga atttcaggaa atccctctgg atcttacgat gatccgggca 180
cataaggctg gatttgagat cctgaaatct acgattgctg agaaactacc caatgatctg 240
taaggaatag agtgctcaat ggagaagctc tacattctta tcgatgagat ctacaatac 300
acccatgatg tcgtgtaagg acgcgttgca cctgattaca caatctcaca agcgggtctct 360
gaatctgtag cttcaatg 378

<210> 54138

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H1

<400> 54138

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aggggatggt gactgatcca aacttacata ctctagcatt cgacaataat aaatctgata 120
tagagttact taactacaat tt 142

<210> 54139

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H3

<400> 54139

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caaagcctct cgcagaccct cagcaattag cagcaagcag gcctaaccag tcacaaggaa 120
caaaaactga tagagcaagt gcacaagcat ctgcaattaa aaatgaaggt tcacgatcca 180
gatgcaataa agctaccatt ccccatcga gaaacaaagg cagcaagaag acgcaacagc 240
aacctaattg acgtgttcat gcgatcaagt tcccagtaga gtagcccatt cgtaggtaat 300
ttattggtta agtggaagtg tctcttctgg tgaacagtct cttcttttct cctttccaaa 360
tgaaattggt tattgtcagg attgttctaa tttggactgt cccgatccga ggttttggtt 420

cgccggccat tggtagtaga aagctacag

449

<210> 54140

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-036-Q1-K1-H7

<400> 54140

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ttttcgacga ccaaatacgc cggggcgggc actttttcca catctacaac aacatttacc 120

tccacttcat gaaccacaac aca 143

<210> 54141

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A10

<400> 54141

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tattaaaaaa aactaaaact aaacaaattg aggactttac aatataggca ctactatctc 120

aacttactac cttatctaca ctaacatcat actttatatc acttttctac tttttaacac 180

cttcaacata ctaaa 195

<210> 54142

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A11

<400> 54142

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ctggatagat cgagagagtg ttacagggt ttgagggtca acacagcctg atgttatagc 120

aacttcgcac gtacgggtatt gccgatcctg atgtatgcag gaggcaggct tatatagcag 180

aggcgtcaat agtctgaaat aacatccgtt gcactagtat ccgaataaag tgacagtga 240

ttgatttttt attttcatta aatttctgtg taaaaaaaaat atactccaag cccgatgatg 300
taac 304

<210> 54143
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-A7

<400> 54143

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gaggggtctt caactttaca tgatccaagc ttactaactc ctgcatacaa ctgtatcaac 120
tctcctatat tgccacttaa attcaattca atgtcctgac cg 162

<210> 54144
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B5

<400> 54144

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gttgacggtg tattgggtcat gtattatgca tttgcgctgg tgttcggtgc tgtccaataa 120
agatagaaca cgttctcgcc ttttgtttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaacaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa agataaaaaa aaaaaagggy 300
ggcccctttt aagggggcca ggtttacttc cccgtatttc caacttaaaa cttttttttt 360
ggggcccaa aatttaattt cagggggccg gttttaaaaa cttttatatt ggaaaaacct 420

<210> 54145
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-B7

<400> 54145

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gtgaactttt tatatggcac ttgtaatacg tcacaaactc ctatcatggc gcccttcact 120
ctatatgata cacggtctta ggcgatctct tactactcct tttaatccat gtgcacaata 180
cacctgctca ccagctaata aacatggcgt acatgcctgt tctgccttgc acacgactac 240
acaccttcat gatcttacct gcgctctgat aacaggttgc tcgcctaaat tacgatatgc 300
tcgatgtgcc tttcttcaca t 321

<210> 54146

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-D12

<400> 54146

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cctactgggg ctgcatgggt cccggacctt gagccctgcc ataaccgggg gagcaccctg 120
cgtcgtcgtc atcgcccacc accaccagtg ctcttccatt cgtctcgtca tccggggcag 180
ctgacgactc atcatccac gctctgggca agcgcccccg ggaccgggag ggtgacgatg 240
ggagaaactg ctgcaacgcc aaagtgtggg ctccaagag catccggata gactacgtgg 300
acgatgttgc caggagctca atctgggtccc tcgtcgggat caaaggcgac cagacgaagc 360
agcaggacgc atcatagac cactccggtg ggcacagcaa gc 402

<210> 54147

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-E9

<400> 54147

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ggctgactta cacatgcggg cgacttcata actattctat actaccacct aacttcaatt 120
cactgcccac ctttttacia catcatcact ctaaaaaccc tgtcattacc caactaaatc 180
cccttacacc acatccccct ttatccaatt aacattataa cgaatatccc tccaccaatc 240

tccctatcaa cacttcccca aactaaataa cgaattagac tctcccttta accgatcatt 300
aacctcaaca tgtctttag tag ttacacgcat acttaccctt acacttgcaa tcaccctaac 360

<210> 54148
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-G4

<400> 54148

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acacatgttc aaggaaatca gcaatgctta gtgatggttt gtctgatgat gagaagcgat 120
caatctatga taaatatgga gaagcacgtc tgaaaggtgc tggcatgggc acaggagatt 180
actcaaacc gtttgatcta ttcgagtcct tgtttgaagg attcgggtgg atgggtggaa 240
tgggtggcgg tcgtgctgcc cgtaacagac caatgcaagg tgatgatgag agctacaatc 300
ttgtactcaa tttcaaggat gcagtgtttg atgtcgagaa agagattgag ataaccagat 360

<210> 54149
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H1

<400> 54149

gtttatgtga tgtggatcta tcattgtgca atactaatta aatttgtata aaaaaaaaaa 60
gaaaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaataa aaaaaaaaaa 120
aacaaaaaaa acacaaacat acaacatcat aactcttata tcatgacacc taaattcaat 180
taactaga 188

<210> 54150
<211> 162
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-037-Q1-K1-H4

<400> 54150

tccccggaatt cccgggtcga ccgacgcgtc cgaactttat gagcaaaaaa aaaaactgcg 60
 ttttattcac gtcaatcatc gcctccttcg aggacgtcat atatacatgg gcagtgggca 120
 ccgatgatat acaccatcaa actgaataac ctccccggga aa 162

<210> 54151
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-H7
 <400> 54151

taccgggtctc gtgaattccc gggntcgact ccacgccgtc ccggggccat gcccaaccg 60
 accccagcag cgcctcattc ttcgcgcggc aaggccagct ggtaggatgg gccgcgacc 120
 atggtcggat taccaagcat ccagaaggga gaaagcactc tccagcctgg tgctccgcct 180
 caggggtngg catgcnagat ttttgtgaag acatntgact ggcaagtacc attcaccttg 240
 gaggtgngag aagctctgac atnccattga caatgtgaag ggccaagaat ccaggacaat 300
 ggagggcatg tccccagac cagcagcgtc tggaatcttt gcggggccaag ccagctg 357

<210> 54152
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-037-Q1-K1-H9
 <400> 54152

aattcccctg tcgaccact cgctcctcca cgcgtccgca ccaccatcta aaacgtgttt 60
 tctaccatc ccattatctt ccccgtgct acagtcacca cattctgatc cgggctanac 120
 tcctatatcc ttcattctaa ccatctccat tccttcgatt ccatccatcc ctaatatctc 180
 aacaccttcc actctcttca tacatctctc tctttctcta ttacgactca ttatccatct 240
 cttctttact tttactcttc ctctctttct tctcttccaa cgtactaact caactcacct 300
 cttccttcaa catacctttt ctatcccata acatctttca atacatctcc ttatctacaa 360
 ttattaactt a 371

<210> 54153
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-038-Q1-K1-C7

<400> 54153

 taccggttcc ggaattcccg ggntctaccc acgcgtnccg gaggtaccgc aaggagggttg 60
 tagagagagt actttaatgt ggacataaca caacatacac tttctgagcc agatgaccc 120
 gcgacaagga agcatcggat tgaaaacata ttcaggctct gtggcaacca tcgtgaaata 180
 gctaagaaac caaagggtcca gtcaccagca aaggaaatgt tctgcagcga gaacaagtct 240
 ccagcaaagc aagtgttttg ggatcagaac aaatcgatcat caaaccaaat ttttggagat 300
 gaaaacaagg agccgtcggc atgggggtgct atagagaccc ccatgtgcga tgtagagt 360
 actgacagcc cagtgtcttc tcagctttct ccaatcgat gccaaagttg 409

<210> 54154
 <211> 207
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-E5

<400> 54154

 cacccttccg aaaaaacatt ccgaaaaaaaa tacatTTTTT tcattcaaaa acctagaaac 60
 acaccacaag ggaggttttc tcaaagaggg gggggcgcta aaaaaaaca aaaaataata 120
 cggggggcgc cgctctaaag gatccaagct tacttccgcg tgcatgcaac gttatagctc 180
 ttttattggg ccacctaaat tcaatta 207

<210> 54155
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-038-Q1-K1-F2

 <400> 54155

aagcgaatca cattatcaac aacctatcaa caatggctac caagatatta tccctccttg 60
cgcttcttg cgtttttgag agcgcaacaa atgcgttcat tattccacaa tgctcacttg 120
ctccaagttc cattattaca cagttcctcc caccagttac ttcaatgggc ttcgaacacc 180
cagctgtgca agcctatagg ctacaacaag caattgctgc gagcgtctta caacaaccaa 240
tttcccagtt gcaacaacaa tccttggcac atctaacaat acataccatc gcatcgcaac 300
agcaacaaca attcctacca gcaactgagcc acctagccat ggtgaaccct gccgcctact 360
tgcaaca 367

<210> 54156

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-F5

<400> 54156

ggcaaaaaaa aatgcggcga gccgttttaa aaagaacca gtttacttgc gcgttcttgc 60
acaaatatta tctttcctaa aacgccccct aaactcaatt cactccccctt tgtttaacaa 120
cgcttccacg gaaaaaaccc tgtcttcacc aaatttaatc ctttttcccc acatcacctt 180
ttccccatct gtattaataa taaaaacccc cccaatatc gcccttccca acaattgccc 240
acctttaata ccaaatggga cccccccacc atgactac 278

<210> 54157

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G10

<400> 54157

ggaattcccg gggggacaca cgcgtgggtg ttcacgatcc aagcttacg ctttttgcgt 60
gcgacgcgct aaatgttcta tgggtggcacc taaaggtagt tcggtt 106

<210> 54158

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-038-Q1-K1-G6

<400> 54158

caccgggttcg gaatttccgg gtcgacgccca cgcgtccgcc cacgcgtaac ggagacgcga 60
tgggtgctgt cttccgctgg cgggtgctat tagtcgctgt gtacctacc gtgacacata 120
tccctttttt tggagcgtg gactactcag gcaaactctgg catcgcgacc tttggcagct 180
gacttagtcc cgattgttgg gctgtaggaa acaaacacaga accggttcga ggtccctaga 240
tctctgcgta gaggcggcga ggcacccgaa tccggcaaaa aagggttcgc ggtttgcctt 300
ggttgggagg agcgcaggag cccggcgtca aaacccaatc ttggcgcccg ggctgccgtg 360
cgccatcgtc ttctcccccc tgtggtgttt agggagagga gaaggccggt gga 413

<210> 54159

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A11

<400> 54159

accggtcctg aattcccgtt tccgactcag acctaccgt cgcgtgacctg attaggttc 60
catgtcggat tccttcacac tactatggtg cttcaccgag cgatgggatt gatcaagtgg 120
ctacaggtga atatgcacag cctgctctag agatacatca tctgctgcta ttcaatgtct 180
gaaatgctct tgtctgccct aggcacgtc atctagacaa ggaaacagtc taccgtaata 240
tcatacaccg taatacatat gttatgaagt tacagcgtag tgatactgaa gatccattaa 300
atg 303

<210> 54160

<211> 78

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-A6

<400> 54160

aaaaaaaaa aaaaaaaaaa aaaaaataa aaaaaaaaaa aaaaaaaaaa aaaaaaaag 60
gaaaaaaaaa aaaaaaaa 78

<210> 54161
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-A9

 <400> 54161

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 atctcatttg aaatcaaccc atcctogttt cctcggacta gcagcctgtc accctcatgg 120
 ccaagatcaa gatcgggatc aatggggttg gcaggatcgg aaggctggtg gccagggtgg 180
 tcttgcatac cgacgacatc cagctcttcg acatgaacga ccccttcac atcaccgatt 240
 acatgatcta catgttcaag tatgacactg tgcacggaca gtgtgagcac catgaaggtc 300
 aggtgaaaga ctccaagacc cttctctttg gtg 333

<210> 54162
 <211> 70
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-B5

 <400> 54162

 aaaaaaaaaa aaaaataaaa aaataattat aaaaaaaaaa aaaaaaaaaa aaataggagg 60
 gataatataa 70

<210> 54163
 <211> 96
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-039-Q1-K1-C1

 <400> 54163

 cgggtctcga attcccgggt cgagccacgc gtccgctcac gctatctctc tcacgctcac 60
 tttcctttca cggtgactgc caattcagtg gggggg 96

<210> 54164
 <211> 322
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-039-Q1-K1-D10

<400> 54164

acctgtcctg aattccctgg tcgaccact cgtcctacca cacctacgct aaccatcacg 60

cactcccttc taccattcaa cccttacact cagggcggac caaccttagg tanccacatt 120

tcacaaccct aacttcatat actacctaata tctcactttc aataacttca tcaatatcac 180

caccaaattc acctacatca ccctacaaca acatctcaac tctctccaaa cacaccttac 240

atatcacact tgtccataat atcaatcttc tatacaaata accaacactt cacatcattc 300

ctcatcaaag aacaccactt ac 322

<210> 54165

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-039-Q1-K1-F9

<400> 54165

accggacctg aattcccggg tcgaccacg cgttcgttgt tcaaagataa cgcattgtgac 60

ctaagatgag ctcaacgaga acagaaatct ggggtggaac atacagggtta aagctcgctg 120

gattatgatt tacagctcga atactaaccg ggtacgcgtg gcctatcgat ccttttagacc 180

tcaagagttc gaagcttgag gagtacagaa cagataccac actggataac tgtgcttgtg 240

tgcagccaat ctgatcatag tcgacttaag cataactgat cctccagatg attagc 296

<210> 54166

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-A10

<400> 54166

gcctgccgta ccgtccggat tcccgggtcg accacgcgtc gccaccgtcc gaacgaggcc 60

ttatttcaag cggccatatg ccaatggaga gctgattatg a 101

<210> 54167
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-A9

 <400> 54167

 aaaaaaaaaa aaaaaaaaaa aaaaaaatta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aagggctgac aatttaaagg gtaccaagct aaaatacaca tgcattgagac gcaatcagct 120
 cttgtataga gcaacctaaa tgcaatc 147

<210> 54168
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D11

 <400> 54168

 aaaaaaaaaa aaaaaaaaaa aaaataaata aaaaaaaaaa aaaaaaaaaa aaaaaagaag 60
 aaagataaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa 120
 aggggggggcc tatttaaagg atccaagctt aggttcactg gcatgcatga taaaactgct 180
 ttaatagggt cacctaaata aaattaactg gctgaggtat aaaa 224

<210> 54169
 <211> 197
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-D3

 <400> 54169

 attgattgag atttatctca aaaaaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaagg aaaaaaaaaa aaaaaaaaaa ggggcggccg 120
 ttctagagga tccaggctta cgtacgcttg cttgcgacgt aatagctctt ctatagggtc 180
 ccctaaattc aattcat 197

<210> 54170
 <211> 249

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-040-Q1-K1-E11
 <400> 54170
 aatgaacata catgacacaa gcgtgtcttg actgcacaaa ctacatccta ggagctaagc 60
 tactttcaagt caaaagtcta tgacattatg cgtacatgca tgtcactcgc atggactagt 120
 ataaccgaat catggctgac ctttgtctac acaacaacaa ggactacggc ggccgggtcta 180
 caggatccat gcttacctac gcgtacatgc gacggcatac ctcttatata gcgtcaacta 240
 aattcaata 249

<210> 54171
 <211> 108
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-040-Q1-K1-E2
 <400> 54171
 atccatatgg attgaaaata accgaacaag cccttgagg gtagatcggg ggagtcgtgc 60
 agcagtagca ctacgtcctg tgaaaagagt atcatctcgg ttttaaaa 108

<210> 54172
 <211> 155
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-040-Q1-K1-E9
 <400> 54172
 aatgaatcta tattacagca taatgtatag actagagaaa gtacatccta ggagtttacc 60
 tcctttcatt taaaagttgc tgtctttatc tgtacatgca tgtagctcgg ctttttttgt 120
 ataagtgagt catggttgat ctttgtctac aaaaa 155

<210> 54173
 <211> 79
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-040-Q1-K1-F11

<400> 54173

ggacgaccgc actcgtacga aaaaaacaaa aaaaaaaaaa aaatataaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaggag 79

<210> 54174

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-G10

<400> 54174

ccggtccgga attgccgggt cgaccacgc gtgcgtcct ggtgttttgg atgcaattgc 60

tccacagttc atgacaagaa aaatttgggc tgttgcgta ccccgtaag tgcgaactcc 120

aaccaggcct cttaagttag agatagctat atatcctgaa ttacaggctt ctaaaccacg 180

ttctgtactt aaactatgga aatgtcaaat tgagcaacca aagcttaatc aggctgaccc 240

ttccattatg atttttgaca aaggaacaaa gactagatac aagatcttac cggcctatga 300

agggtgacaaa cagcagcttc aatggtttta taatgcatgt tggggcatgg cccagggtttt 360

gaacacgggt ccagtagcac cagcaaatt 389

<210> 54175

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-040-Q1-K1-H10

<400> 54175

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gcatcagctg gcgcagacgg agccagccga cttgagctcc aggaaagtag cacgggcaac 120

aactgccacg acctatcctt caaacgata ctcgagacga cgactacgac catcgcagcg 180

gacgcgtgcg atgaaggga cgaccaagac gagtgcggtg atacgcagct gggtgttgac 240

gcgcaccgtc gctacttcta ctcgcagcac aagggcgagc gcgcaccgac agcgacgatg 300

acggtgcatg ccgccgctgc atgaaatgat gagcggcaga cgagtgatta aatgatggac 360

catcc 365

<210> 54176
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-040-Q1-K1-H4

 <400> 54176

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 aagggcagac gttctagagg atccaaagct taagggcccg tgcattgcga ggttttagctc 120
 ttcggtaggg gaacatagaa tgaattaaact ggccgatagt gtacattctg ttgaatggga 180
 aaacctctgc gtaaaccagc ttaactggca acaccattgt gccacttagc at 232

<210> 54177
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-A11

 <400> 54177

 gcattctcga gcatagcttc tctgcctctc tctcccctcc tctcctctcg tccactcctt 60
 tgtccaaagc ttcgagatgg ctccagcagca gaagggtgtg gtcagggttc caaccatgac 120
 agatgacaag atcaagcaga aggccatcga agctgtttgc gacatttacg gtattgactc 180
 catagcagcg gatctgaagg agaacaagat gaccatcata ggccgagatgg atgcagtagc 240
 gattgccaaag aagttaaaga agattggaaa gattgacatt gtgtctgttg gacctgcaaa 300
 agaagaaaag aaggaagaaa agaaagagga gaaaaaggaa gaaaagaaag aagagaagaa 360
 agaggagaag aaagaagaga aaa 383

<210> 54178
 <211> 63
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-041-Q1-K1-A6

 <400> 54178

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aat

63

<210> 54179
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C1

<400> 54179

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tattcttagg aatatggagt gattgtcact gcgaaactta ccatggaata gcgaccctg 120
cattcaaaaa tctctatgg cccgatgggtg atctgtaggc actcaatggc gcgagtacaa 180
ttccacacct tagcagctca cagctatggg tctgttaata gggtagctta acatactttt 240
ctgcgtccct tccatcggtt tactcttacc cagcgacgac actcctaaag ggatcagact 300
tactacatct cgattgcctg aacgctcaga cgcccgtcac aagtcca 347

<210> 54180
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-C3

<400> 54180

cggaattcct ggcgcgacga cacgcgtccg cccacgcgtc cgggctcacc ccatcatcag 60
cacgcgaaaa tctcccgatc ccagctagtc ttcgccgaga agatgttcgc tcaccgtaag 120
ggcgtgaagg gcctgggcaa ggcgggaccg aaccgccacc ggaaggcgct ccgctacaac 180
atcgagcgga tcacgaagcc ggcgatccag ctgctggcgc gcaggggctg cgtcaaccgc 240
atctccgggc tcatctacga cgagaccgcg ggcgtactca agatcttcct ggagaacctg 300
atccgcgacg ccggcaccta caccgagcac gcgcgccgca agaccgtcac agacatggac 360
gtcgactacg cgctcaagcg tccaggccgc accctcta 398

<210> 54181
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-D6

<400> 54181

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tttt 64

<210> 54182

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-E1

<400> 54182

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gctattttatc atcggctctt gtgaagggtgc gtggcctatg ttgggtgtat aaagagtcta 120

acttaatata tccgttcttt gcagtcgcac acttcatgtg acgactggta tattatgcta 180

atatatacgt cttcctctca cacgccattt ctcccttttg acatattgaa gtaaacctg 240

ctagccactt ggaggatcca cagattatat gatgcgctat aaaagtactc tccgtgttga 300

aatgttttagt ctccatcctc ggtgcataac acggttttgc tggacagtac tgtgcggaag 360

agtacaatag acataagcga tggattcca agcagatggc ttttgggtat ttcatagtct 420

gacaaatttc attttcctgt taataaa 447

<210> 54183

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F10

<400> 54183

aattgccggg tcgacgcacg cgtccgagaa agactcccta aggtcgacct agaccactga 60

ggacctgcgc tctagacgtg gaggaccgca tgagggacca ttgcgtgacg gaggagatgg 120

cgccccgcga acgcgagtac tcaaggagcc acgttcggtc ccctgtattg tcaagctagg 180

tggatcggcg actaccaaca agggcgagct ggagagcatc aacgatgaga acctacggtc 240

ggcatgtgcg cagctgctgc atgccatgta cgaatctgac tgcatg 288

<210> 54184

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-F6

<400> 54184

cttcacttgg ataacctttc gctgagctca tttcaataag acgtttcgga gccatggaaa 60

tgctatgtcg cttggagtca atgtggatgc ctaatttcaa atttttattc ttcatacatt 120

tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcag 180

ccaatctata tgatccaagc tttcgtactc attcatgcga catcatagct gtactatggt 240

gtcacctaaa ctaaataagag 260

<210> 54185

<211> 197

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-041-Q1-K1-G10

<400> 54185

gtggcgcgcg tctacctggg cggccagaac gtgaccctgg acctcgctag gttccggcag 60

acactggcga ggatgcactc gcacgcgatg cggcagaggc tccggcagga gagactgtga 120

tggccggccg gccatcggcg acaggtgtac gcacgcacgg cggctgacta tgctgntccg 180

gaccggtaga gggagcg 197

<210> 54186

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-G8

<400> 54186

aaaaaaaaa aaaaaaaaaa aaaaaatata aaaaaaaaaa aaaaaaaaaa aaaaaaagga 60

aaaaaaaaa a 71

<210> 54187
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-041-Q1-K1-H8

<400> 54187

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atacaggtga tagttcgtca aagtttgaag gccatgatta attggccccg catgaggatc 120
atcaatgaga ccctaatacct gatactattc ggatcaatag ctacaagata cgtgtaatta 180
aagtcattga tcatgga 197

<210> 54188
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A1

<400> 54188

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gcccaagata atagtgcac cctgccagca ttccctgctg gtaaccaagc cacgtctgca 120
gaaaattagg ttagcggttc agagaatgct tgactaataa tccttgcccc tctagaggct 180
atatcagcca tgcactgtaa tactcagggg gaatgtatgg tgaactttat atcatgcaag 240
tttagacatt tgtattttga gctttgtttg aggataaaat ctgtgtattt ttagcgctat 300
gtaacacatg gactgccaat tgctgtgggt ggattttgat ctataaaaaa aataaaattt 360
agataaaaaa tataaaa 377

<210> 54189
<211> 523
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-A3

<400> 54189

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cagtttttca tgaatgacat gtgtccccgt gggggccttt tgagagtccg tgagtttact 120
 ttagcggaaa ttgatcactt tgtggacca gaggacaaat cccatccaaa gtttggatgat 180
 gtttctgatac tacagttcta gatgtttccg agagaggatc aaatggcagg aatgtcagcc 240
 acaagactta aactcggaaa ttctatatct gagggaaactg tgaacaatga gacccttggc 300
 tacttcattg gaaggggtcta ccttttcttg acacaacttg agattgacaa ggatcgtctc 360
 cgtctccgtc aacacctgcc aaatgaaatg gtcattatg ctgctgattg ttgggatgca 420
 gagattgaat gtcctatgg ttggattgag tgtgttgga ttgctgataa gtctgtctat 480
 gacttacgtg cccactcga ttaaataccg gaagaaactt gaa 523

<210> 54190
 <211> 609
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-042-Q1-K1-A8
 <400> 54190

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 aaggacgagg aagggtagcc agcgttcgag ctggtgaaca aggtcaccgg cgaagccatc 120
 aagcactcgc tgggacagag ccaccgggta cgccttgtgc cctacaaccc cgagtacgtt 180
 gacgagtcgg tgctgtggac ggagagccgc gacgtcgggc acggcttccg ctgcgtgcgc 240
 atggtgaaca acatctacct caacatggac gccttccacg gcgacaagga ccacggcggc 300
 gtccacgacg gcaccacgt cgtcctctgg gagtgggcca agggcgacaa ccagcgtctg 360
 aagatcctgc cctggtgaac gtgaacagag acgagctaga tgaatccaag gaaccttacc 420
 tagctgctgc cgccgcgcc taattcgtcc tctccgctc tagctgttat ctgtctgtgt 480
 ctccgcgtcc tcggttctg aatggacgaa taatatatag catgcatgta cggctagcga 540
 ccatgtctga atgacatctt cgttctgtgt gctgctgcta ctgctacctg tccgttttgt 600
 gttctaaaa 609

<210> 54191
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-042-Q1-K1-A9

<400> 54191

accggtccgg aattccccgt tcaaccaagc cttccgctta cccaaacccc gcgccccaaa 60
aggaaaacca cccagaaggg aagaaaacca tcgatcgatc catcgaaata aaaggctttt 120
cttaacatgg agcaacagaa ctgggccttc acctttcgta tcctaggtaa cataatctcg 180
ctgatgggtg tcctttcgcc gctgccgacg ttctaccgcg tgtaccgcaa gaagtcgacg 240
gaggggttcc agtcgacccc gtacgtgggtg acgctgttca gctgcatgct gtggatcttc 300
tacgcgctgc tcaagtccgg cgccgagctg ctggtgacca tcaacggncg tcggtgcgtg 360
atcgaagcgg cgtaccttgc cgcgtacctg gtgtacgcg 399

<210> 54192
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B11

<400> 54192

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cccggccgggt ctacgaggcg cgcggagggg acgggagagc aaggcgagga gcgcggaagg 120
gctgatggaa ggggcggcgg ggcattggctc gccggccggc gtcgtgggag cagggcggcg 180
acgagtacga ctatctcttc aaggctcgtg tcacgcggca ctctggcgtg gggaagtcca 240
acctgctctc ccgcttcacc aagaacaccc tttgc 275

<210> 54193
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-B12

<400> 54193

cggtccggat tcccggtcga cctacgcgtc cggcgagaga gatccggagc agccgcagtc 60
ccaccgaccc cgccgcgggt cgccctccat ctgctcgccg ctgcctctcg tttctctttt 120

caataatcaa gatgagccgt gggggagtgc ccgtggtggg caaaggtctc tggggtatcc 180
ctttggaagc cgtgaacccc cc 202

<210> 54194
<211> 209
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-D7

<400> 54194

accacgcgtg cgcccacgcg tccgaaaata aaaaaaaaaa atggaaccgg aactgtgcga 60
caaagacata cacgaaaatc agaagacaat atactagaac agaatgtac aagctgaaaa 120
aaggggaggc cgttttagag gatccaagtt taggtacacg tgcttgcaac ttcttagctt 180
ttttataggg taacctaaat tcaattaag 209

<210> 54195
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E6

<400> 54195

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacccacgc 120
tttcgccac gttccgagg acccctgggt ttaaactgca agcgccggtt ttaaaggatc 180
caagtttacg tacccttgca tgcaacttca tagcttttat atagggtaac ctaaattcaa 240
ttcat 245

<210> 54196
<211> 598
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-E7

<400> 54196

tgcagtttta caagaaccta tgcagcagac ttgacagcat aatctggagg ccaatcgaag 60

tttctgcgaa atctaagctg ctgaggacga ccacttgcta gcccagcact gagctactgt 120
 aaatggcaac caacaacaag agacgtgggt cgtagccgtt agaagagggg gaaacttctg 180
 ttaaattccag cgtatagctc gtggagctgg gattcacgag gatttctgca tctcgctttc 240
 tcaggtgatg catgtaccat agctgtcttc gttagatcag acgaggcagc tcaaagcacc 300
 aggtgtttgt atatatatat tttttgtaac gctattgtag atagcctgtg tagctccagc 360
 cgtgcagctg tatgtagcag aaacctgaat gtccgaaaac gcccctgaat gtcaggtaga 420
 atcggtgctt gcatccagtt aacaagctgg cctatgtggt catgccacca tacagtagta 480
 cacatgcacc acaggatcag caagaggata gagccgtagt agaatcatgg aagcagatat 540
 gttgaacttt tacaggttgc atctgaattt gatgaggttt taagttatta tattaataa 598

<210> 54197
 <211> 198
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-042-Q1-K1-E9

<400> 54197

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 tgagagacct caatgttacc accgtatctt tgtctttggt ggatggagag atttaagcac 120
 cttaccacac ctttgttctt tgttggatgg agagttttaa gcatcacctg tttgaagttg 180
 aaaaccctaa ctcaaan 198

<210> 54198
 <211> 172
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-F8

<400> 54198

aaaaaaaaaa aaaaaataaa aaaaaaata aaaaaccaa aaaaaaaaaa aaaaaagggg 60
 gaacaagaac gcggacggcc gcacaagagg acccaagcaa acgaacgcga gcaggcaacg 120
 acataagcac accaaaaggg acacctaca ccaagccaca ggccgacgag aa 172

<210> 54199
 <211> 199
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H1

 <400> 54199

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 cgtttttagct tgcaaagctc tcggcagctg ttgccatttc aagcgccggt gcgccctcaa 120
 ttacccatgc ctgtcgccca gcccccaact tctacgtcat cgtagtgggc gccggcatca 180
 tcgtcagctt cactgctca 199

<210> 54200
 <211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H10

 <400> 54200

 accgtccgca ttcccgggtc gactcacgcg tccggagaag ctagcacccg cccaccagga 60
 tccaggtttg tgctgcgaga gggcctatcc attcggcatg attgatttcg tgctcctgat 120
 cagccgacag ggcaaggtga ggctcaccaa gtggtattct cttacaccc agaaagagag 180
 gaccaaggtc attcggaac tcagtggact cattcttaca cgagggccca aactct 236

<210> 54201
 <211> 102
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-042-Q1-K1-H2

 <400> 54201

 aaaaaaaaaa aaaaaaaaaa aaaaaaatt aaaaaaatt aaaaaaaaaa aaaaaaaggg 60
 aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 102

<210> 54202
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H5

<400> 54202

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggagc cctttttaga 120
ggccccaatt ttacgtccgc gttcttgcaa cggtatacct tttttatagt gcccctaatt 180
ttaaatt 187

<210> 54203

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K1-H9

<400> 54203

ggtcgaccca cgcgtgagac cacacgtgag aaaaaaaaaa aaataaatta ttataatgat 60
ttaaaaatat aaataaataa taaagaaag 89

<210> 54204

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-042-Q1-K2-A11

<400> 54204

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ccgtcgtgct cgtcgcggag ccgaccgng tcaggggtgct cggcaacgtc tggctcgcct 120
tctccatggc cgtcttcgtc gcccctga gcgtcatctt cgttgtgatc aggacgaaga 180
gtgccgagtt catgcccttc accctctcct tcttccttac cctcagcgcc gtcgcctggt 240
tcttgtacgg gctcttcacc aaggaccct acgtcacgct cccgaacgtg ggcggttct 300
tcttcgggtg catccagatg gtgctctact gctgctaccg gaag 344

<210> 54205

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-042-Q1-K2-G11

<400> 54205

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ttgagagtga tcaaatcctt agctgcttgc tttgtctctc ctattttctc cttgtgtatt 120
tttaagcggt tatccatgaa caaagtatcg gtactagggt actactaaac caaggatatt 180
aggctgtttg gctcagggtt aaaaaaagc tggaagccat acaacgcccg atgctagcca 240
ccgagctgaa cctcggctac caactggcgc c 271

<210> 54206

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A3

<400> 54206

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aacaaaaata tgtctgactt aatagcatat aggggagaat tcacccctca tccacatgct 120
ggtgataatt ggtgtatcta tccgagctat gactatgctc attgcatggt ggattctctt 180
gaaaacatca cgcattcgct gtgcacactt gagtttgaca tacgccgccc ttcatactac 240
tggctacttg ttgccttggg tctttatcaa ccatatgtgt gggaatattc gaggctaaac 300
atatcaaata ctgtgatgtc taaaagaaag ttgaatcgac ttgtgacaaa gaactgggta 360
gatgggtggg atgatccccg cttgttgaca ctggctggac 400

<210> 54207

<211> 492

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-A4

<400> 54207

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ggaagcaaca gacagtgatc ataaacctgt caaatgtgtg ttcagtgtag atattgctca 120

tgtggacaaa caaacaatga ggcagaagta tggagaaata atgggttcaa ataaggaagt 180
gcttgactca cttcagggtt tggaggcttt gcctgaagta gatatcagca cgaatgacat 240
cattctgcaa gatcaaaacc cttttgttgt gaaactgcac aacagaagta caaaagagtt 300
ggcttgTTTT gagatcattg gtcagacacc aaagtcattt ggcacacctt tctcagggtt 360
cccttcttgg ctgaagggtt ctccggcagt cgggtataatt tctcccagac aatctgttga 420
agtgcgttg caacatggac aaatacgaag tcaagattat cttactggga cttcanggga 480
cagttctgga gc 492

<210> 54208

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A7

<400> 54208

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ggcaccagc ctccacgcca cagatctctc tccctggccg cctctctctc ctctccgaac 120
tctacccgc agtctcggcc gcggccatgg cggaggacgc cccaacgcc gtcgccgagg 180
gcagccagcc cgcggcctcc gagggatccg ccgacgcgc cctgccggct gccgcgggcg 240
ccaaggccgc ggaggcgctg ctcccgctgc tcagtatctg gccgccgtcg cagcgcacgc 300
gcgacgccgt ggtgcgcgc ctcgtgcaga cgctcgcggc gccagcggtt ctctcccagc 360
gctacggtgc cgtcccggag cccgaggccg agcgcgccgt cgtggccgtc ga 412

<210> 54209

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-A9

<400> 54209

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gcacgcacac gcacacgcac acaccagcc ttttggctgc ggtggcgccg tcagagagag 120
aaaccgagct ctaactaact gaagtggcgg ccacatagct agctactctt ctgatactga 180

gcgcgcacgc gccatggctc aggaggacgt gcacctggac gacgcaggcc tcgcgctggg 240
 cctgtccctc ggcagcggca gcggcggcgc ctctggtgcg gcgcgccacg gtggtatcag 300
 ccgccggctg agcatggagg tgcggctgcc gtcgccgcac ccgctggagc cgtecgctgac 360
 gctgagc 367

<210> 54210
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-B2
 <400> 54210

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 tcctaacca accctactc aacctagctc gcgggggggg ccactctgcca tggccttccg 120
 cctgatcaac aacctgatcg gggtcctaaa cttegtcacc ttctgtctct ccgtcccgat 180
 cctgtgcgcg ggcactctggc tgggccaccg cgcctacggc acctagtgt agcgctacct 240
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 cggcgccctg tgccgcgtca cctggctgct ctgggcctac ctcctcgcca tgttcgtcct 360
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<210> 54211
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-B8
 <400> 54211

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 ggcaagggtg gcctgttcga gttcctgtac gaacggatca agaataaggg gcatgctgtc 180
 ttcatggtct ccaaacgaac tggccatgaa ctgattcccc ctactgacca tcagaagcgt 240
 gagcaggact agtcctgcaa caccgtcttc ctctacctat gacccttget gaagtccatg 300

ctgatcatat ggtggaagag gtaacatccc gactacgcta tcactgtgaa gttcattgac 360
 cctacgtaca tgatcctatc cttccctgcg aacgccagcg acaacttgta ctgcactttt 420
 c 421

<210> 54212
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-C2
 <400> 54212

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 tgctaccgca accattttcc cacaatgctc acaagctcct atagcttctt ttcttcccc 180
 atacctctca ccagcgggtgt cttcagtatg tgaaaaccca attcttcaac cctacaggat 240
 ccaacaggca atcgcagcag gcattctacc tttatcacco ttgttctctc aacaaccgtc 300
 agccctatta cagcagttac ctttgggtgca tttgttggca caaaacatca aggcacaaca 360
 actacaacaa cttgtgctag gaaaccttgc tgcctactct cagcaacagc agtttcttcc 420
 attcaaccaa ctggctgcat tgaactc 447

<210> 54213
 <211> 530
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-D1
 <400> 54213

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 gaatccggag gaggaggggtg cgaggagatc gcgagcagcc ggagccggag ccggagccgg 120
 aggctagta tatgaagacg ttcgatccgt ggccggtctt cttccgccgg gagtggaagc 180
 gcaattggcc cttcctcacg gggttcgcca tcaccggctt catcatcact aagatgacgg 240
 ccaacttcac cgaggaggac ctcaagaact ccaagtctgt ccaggagcac aagaagcgct 300
 gaccaaccag taatctatga catggacgcc ggatggcact ggcagagggg tgggtgtacgg 360

tgttggtccga attgcctgtc tggacagcca gttatgttat gctgtttgaa tgaaaaatta 420
gcttcttttt cttcatctaa atgcgtgcag cctatgctcc atctgtaatg taataagagg 480
caactgactn gatccaaaag ctaccaacct ctgattatga atgatacntc 530

<210> 54214
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-D2
<400> 54214

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ggcgacgcca aagttcttgg gcctcctcat cggcgacttt tccgccggcg acaggaaaca 120
acgaacaaaa ccacttctct gtcgagaggc gtcgcgctcc tctcttcgcc ctctgctggt 180
atTTTTctta acccggtttt ctctcgattg ctgogtaaag ttgaagatga ggaagctcaa 240
gttccatgag cagaagctcc tcaagaggca caatttcttg gagtacaaga gggagggcgg 300
ccaccgcgag gcgctcgtca cacagcgcta ccgcctcgtg gagagggacg actacaagaa 360
gtacaatggg atatgcttaa tgggtcaaaa gctcggttaac atcataaagc 410

<210> 54215
<211> 163
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-D5
<400> 54215

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agctactaca cctctcctat cctatgttct cagttaactt tctgtcagac agtagttttg 120
ttttccttcg tgtaatcccc tagatatata tttttccatt tct 163

<210> 54216
<211> 229
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-043-Q1-K1-E1

<400> 54216

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tgtgcgttta ctctttattg gttgattgag gagtgggggc atgctaatacg actaacaat 120
ccttgacttc gtcgattcat taacctatga atgtatctgg gaactgatga ctgaaaaata 180
ttgcatgaaa atacatgggtg gtcaaacaga atttgaacca tgtttccat 229

<210> 54217

<211> 193

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-E10

<400> 54217

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ttattatatac agtttaacaa aaaaaccctt tctcctttct ttatttttta aacacctcca 120
caatttaaaa aaccttttcc aaataaccgg cccccaatcc actttggtaa aacaaaaaaaa 180
taaattctttt ttt 193

<210> 54218

<211> 86

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E2

<400> 54218

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tttttaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaggggggtt ttttaa 86

<210> 54219

<211> 278

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E3

<400> 54219

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 aggtaaagat actttctgaa cagaatatgg ttgctgaagc tattgatagc tgtacagtta 180
 tggccgcttg ggatgggtgtg ccatctggag ttttgtgcta acatgcatgt gatttgacgc 240
 tgcaatgtgt actagcaaca gacttggttt tcttggtt 278

<210> 54220

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-E4

<400> 54220

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 gaaatggatg atgaagacga ttgaccatta tgatagctta atggatctat ttggttaagaa 120
 tagggagaaa cgtcaagacg ttgagaactc aaaaggtacc tcgaagaaaa aggcgcgaac 180
 agaaccgcca aaggagatac ttcaacgtac tccattaaat cggaaggggt cagctcttgc 240
 cgaaagtcca gataagacgg tggacaaatg tgagatccat gatgagataa aaacaaatgt 300
 ggaacttgat ttgtcagaat cgtgcagaac tgataatggc attgttgcca tacctgttcg 360
 tgcctattca tacggtaaag gtttgcccta tgctcctgaa aattggccac gtcattggaga 420
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<210> 54221

<211> 328

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K1-F10

<400> 54221

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 gtgctgctct gaatattaac aggcaattaa ggcaaggtgc tgtttcgggtt tgggtggaccg 180
 catgttgacg ataataaatt agttgttttg tcatttgcgt ctctatcgac tttgctagtt 240

tgcttctttt ggccaccgcc caactagtcg ctttcaagag ataaattaaa tagaaacaaa 300
aatgtaatta tgctacaaat tcacctct 328

<210> 54222
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F2

<400> 54222

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cccccggaac tgcgtgtgac gcctggacgc cacgtccagc tgacggttcc gctggagcag 120
ctgatagacc ggctggtgaa ggagaacagg gtgggtggcct tcatcaaagg atcaaggagc 180
gctccccagt gcggtttctc gcagaggggtg gtgggtatcc tggaagcgca cgccgcggat 240
ttcgtgaccg tggatgtgct cgacgaggag cacaaccacg ggctgagaga aacctcaag 300
gcttacagca gctggccgac gttccctcag gtcttcgtcg gaggggagct cgtgggaggg 360
tgcgatatca tttcgt 376

<210> 54223
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K1-F3

<400> 54223

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cgactactac cccggccggg tgcaccgcgc ctctgcatc gacgcgccct ccctcttctc 120
cgctctctgg aaggagtgga ggccgttcgt ggagctggcg ccggcgacgg cgggtggtgtg 180
ctccctggac ttcgaggact cactggagga cgctccttc acggcgtacc cgcggaaccgc 240
gtccctgcgg ttcgagccgc cgccggcggc ggtcacggtg aaggccggcg tggggtcagc 300
ctcgtcgcgg ttctccgtca cccccaccga caaccccgtc 340

<210> 54224
<211> 476

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K1-F4
 <400> 54224

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tgagctgtac ctgttggctc tcctcctcgc tcttcttggc tcgcgctggt tgccgggagc  120
tgggatcgaa agtactgctg ttgttcgcac ggcgaggcgg cggcggagac cggtcagaag  180
gaatgtcttc ggcccaaadc gcgcgggcag atcatgtgtg ctatgtgcac tgcagcttct  240
gcaacacagt tctcgcgggt agtgtcccgg ggaatagcat gctcaacatc gtgacagttc  300
ggtgtggaca ctgcgcaaac ctactgtcag tgaacctgag agcactgatg cactcactcc  360
cagaacaaga tcatacagctc caggagaaca tcaagggtcca tggcatcaac ggcactttgc  420
acgatgatca tcagtactgc ggccatttgg atcagctcgg ttcttcttcg tcgtca      476
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<210> 54225
 <211> 485
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K1-F6

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ctgcacagca acgcatcatc cttctggaac catctcgccg gcgcgcacca caatccacaa  120
cccgtcgaag cgaagcaagc aatggccgga gtcggatcga aggccctcgc cgttgccgcc  180
gttctggcgg ccgtctcctt ctccgtggcc gccgcggccg aggcgcgcgc gccagcccc  240
gtctccgccg ccgtcgcggc gtcgtcgccc ttgcgcggcg ctctcgtcgc ctccgccgcc  300
gccttctctc tcgccgccgt ccgccactga gccgatgggg cctcgtgcct gcaggctacc  360
tagcagtacn ttccccgccg ncgccgnccn cgnctagatc tatntattgg agtgctatcc  420
agtagtacta gtagtagtga gattttgtcg gtgctgtcgt gtcctcgtcg cattttggtc  480
ggatc                                             485
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<210> 54226

<211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K1-H2

 <400> 54226

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 cggcgggcggc ggcgtgacag gcaggcggga cgagccgtcg tccgtcgtcc gcggcgacgg 120
 gcggcggtgc ctgggcctgc cgctcatccg catgctcccc gtcgtcaagt tcaactgccgc 180
 ctctcgcgac gccggcgccg gcgctggtgg cgtggcgccg aggatatccg tgtcggagtg 240
 cgccgtgtgc ctgatcgagt tcgtggagcg cgagcgcgtc cggctgttgc ccaactgctc 300
 ccacgccttc cacatcgact gcatcgacac gtggctgcag ggcagcgcg cgtgccccct 359

<210> 54227
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-A12

 <400> 54227

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 ctccatacgg cgcacacgag cgctccctgc agatgacctc ngctgtggtg gagcgcgtaa 120
 ccaacgacga cgggagcgta gctcgttgc ttgatccaac gctgggtgga gaccacaggg 180
 aagacgagct agcggtcacg gccgaggtga tccgggcctg catgcanagc gacccgaggg 240
 gaaggccgag catgagggag gtcgcccca ggctgaggga ggccgtgggt atctcgccgg 300
 tcgctcgac gccgaggctg tctccgtctt ggtgggcca gctggaggtc ctttccgccg 360
 cggaagcaag ctaataatag tgggcgagag gacaggacag gaacagggca ngatgatgtc 420
 gcgcaatctg accagtttgt tctcaag 447

<210> 54228
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-043-Q1-K2-A4

<400> 54228

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gcaacagaca gtgatcataa acctgtcaaa tgtgtgttcg agttagatat tgctcatgtg 120
gacaaacaaa caatgaggca gaagtatgga gaaataatgg gttcaaataa ggaagtgcct 180
gactcacttc agggcttgga ggctttgcct gaagtagata tcagcacgaa tgacatcatt 240
ctgcaagatc aaaacccttt tgttgtgaaa ctgcacaaca gaagtacaaa agagttggct 300
tgttttgaga tcattgggtca gacaccaaag tcatctggca cacctttctc aggtttccct 360
tcttggetga aggtttctcc ggcagtcggt ataatttctc ccagacaatc tgttgaagtg 420
acgttgcaac atggacaaat acgaagtcaa gaatatttta ctggga 466

<210> 54229

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-A9

<400> 54229

cggaattccc gggtcgaccg acgcgtccgc gccttctctg cttcttcctc cccagcacgc 60
acacgcacac gcacacaccc agccttttgg ctgcccgctg ggccgtcaga gagagaaacc 120
gagctctaac taactgaagt ggcgccaca tagctagcta ctcttctgat cctgagcgcg 180
cacgcgccat ggctcaggag gacgtgcacc tggacgacgc aggcctcgcg ctgggcctgt 240
ccctcggcag cggcagcggc ggcgctctg gtgcggcgcg ccacggtggt atcagccgcc 300
ggctgagcag ggaggtgcgg ctgccgtcgc cgcacccgct ggagccgctg ctgacgctga 360
gcttgccgga cgaagcgacc gcgaccgggt ccggcggggg cggggcccgcg cacagcgtgt 420
cgtctctgtc agtggccggc gtgaagaggg agcgcgctgga 460

<210> 54230

<211> 516

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B1

<400> 54230

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cggaccaggc gaaacatgcc gccgccggtg gcatcgtgcg gagcgggagc atgtggacgg 120
cagcggcaca cgtgatcacg gcggtgatcg ggtccggcgt gctgtcgctg gcgtggagca 180
tcgcgcagct ggggtgggtg gccgggccgg ccgccatgct cgtcttcgcg gccgtgacgg 240
cgctccagtc cacgctcttc gccgactgct accggtcgcc ggaccccgag cacgggcctc 300
accgcaaccg cacctacgcc aaagccgtgg accgcaacct aggtagcaac agctcgtggg 360
tgtgcatgct tctgcagcac acggccctgt tcggctatgg catcgctac accatcacgg 420
cctncatcag ctgcagggcg atccttgagg cgaactgcta ccacgagcat gggcatgacg 480
cgactgcga ctacgatggc aactactaca tgctca 516

<210> 54231

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B12

<400> 54231

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ccgcactcac accatttcac catctctccn gcggggcaga tcctctacgg tcgccagcct 120
ccccctcctg ctgctgcctc ctgccttcaa gcaacaccgg aagcggcaac aaccaccacc 180
accaccacca ccggacctgc ctgagcgacc ccttggtctc ccaactccact gaagcagggc 240
gagagagagt aaggaggagg aggagaagcc atggcgagcg acggcgactg taagggccgc 300
gtcgctacgg cgccgggggc aaggtacggg tacgcggcgt acggcggcta c 351

<210> 54232

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-B2

<400> 54232

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 caactcctaa cccaaccact actccagcta gctcacggcn cggcgagct gccatggcct 120
 tccggctgat caacaacctg atcggngtcc taaacttcgt caccttcctg ctctccgtcc 180
 cgatcctggg cgcgggcacg tggtctgggccc accgcgccta ctgcacctag tgcgagcgct 240
 acctctcggc gcccgtcacg tcgctggggg ccttctcctc cgcgctcttc ctggcggggc 300
 tcgtcggcgc ctgctgcctc gtcacctggc tgctctgggc ctacctctc gccatgttcg 360
 tcctcctcct cgtcctcttc tgcttcaccg tcttcgcctt cgtcggcacc 410

<210> 54233
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B4

<400> 54233
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 gcgggtgtgg cagcgagttc cggttccccg accaaccgac gncggctgct gctgaggcgg 120
 atcccttcgc atccgctgca gcagcagctg acgatgatga cttatacagt taaattagca 180
 gtcctgtgtt gtgacgcata ttgagtactt tgcttcgtta tatgcttatt atagtagact 240
 acaagcaaga cgcggagtcg ctgtacctat ataatactta agttaatatt ttggtacgat 300
 cctctgaatc gtgccatgag ccatggtttg tgttc 335

<210> 54234
 <211> 522
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-B5

<400> 54234
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 gcgaagggaa atggcgaccg ttccagggga tctgatctgg cggatgtgat gaagagcgac 120
 tccttcctgg tgaagcagtt tggcaacggc aatgccaaagg tgcagttcac caaggagccc 180

aacaacctct acaatgtaca ctctacaag tactctggct tatcaaaca gaaaactgta 240
acgatccagc cagctgctgg aaaggactcg gctgtggtcc tctctactac caagaccaag 300
aagcagaaca caccgcgaa gctcagccac aagtctgtaa tgcgcaagga gttccgcaag 360
atggccaagg ctgtgaaaaa ccaggttggc gacaactatt acaggcctga tctgaccaag 420
tcggcccttg gtaggctgag ctctgtgtac cgcagcctcc aggttgccaa gtctggtgtc 480
aagaagaaga acaggcagcc tacgcactaa gcctgtgttc tg 522

<210> 54235
<211> 508
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-B6

<400> 54235
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cttcaatatg tgaaaaccca gctcttcaac catatangct tcagcaagca atcgagcaa 120
gcaacatacc tttatcgccc ttgttgtttc aacaatcgcc agccctatct ttggtgcagt 180
cattggtaca aaccatcagg gcgcaacagc tgcagcaact cttgctacct ctgatcaacc 240
aagtagctct ggcaaacctt tctccctact ctcagcaaca acaatttctt ccattcaacc 300
aactgtctac actgaacctt gctgcttatt tgcagcaaca actattacca tttagccagc 360
tagctactgc ctactctcag caacaacaac ttcttccatt taaccaattg gccgcactga 420
accccgctgc ttatttgcag cagcaaatac tactaccatt tagccagcta gctgcagcaa 480
accgtgcttc cttcttgaca cagcaaca 508

<210> 54236
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-043-Q1-K2-B8

<400> 54236
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 ggtggcctgt tcgagttcct gtacgaacgg atcaagaaga aggggcatgc tgtcgtcgtg 180
 gtcgccgaag gagctggcca ggaactgatt ccccttactg acgatcagaa gcgggagcag 240
 gacgagtcgg gcaacaccgt cttcctcgac gtaggaccct ggctgaagtc cgagctgggc 300
 agatggtgga agaggaaca tcccgacgag cttttcactt gtaagtacat tgaccctacg 360
 tacatgatcc gagcgggtccc tgccaacgcc agcgacaact tgtactgtac tttgctggct 420
 catt 424

<210> 54237
 <211> 479
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-C2
 <400> 54237

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 ccaacaatgt gcagccaaaa tattttgctt ccttatgctc gctgggtctt tctgcaagtg 120
 ctgctaccgc aaccattttc ccacaatgct cacaagctcc tatagcttcc tttcttcccc 180
 catacctctc accagcgggtg tcttcagtat gtgaaaaccc aattcttcaa ccctacagga 240
 tccaacaggc aatcgagca ggcattctac ctttatcacc cttgttcctc caacaaccgt 300
 cagccctatt acagcagtta cctttgggtg atttgttggc aaaaaacatc aaggcacaac 360
 aactacaaca acttgtgcta ggaaaccttg ctgcctactc tcagcaacag cagtttcttc 420
 cattcaacca actggctgca ttgaactctg ctgcttattt gcaacaacaa ctaccattc 479

<210> 54238
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-C3
 <400> 54238

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ctccaatgga gctggcgacc gagccctccc aagctcctct ctcaccttgg caagctctcc 180
catggcgtct cccctcctc tacggcagta aggaccgaga gatgatgatc gagccagtga 240
tgtggtggta acaacaaggt gcagttggtg gacgtactga aggatgatgg acttaaccag 300
tggatgctcg ccgagcaagt acctcccca acaaacacta tctaagtgtt aaattaaagg 360
tactcttttag gatgtttggt tgatggtgtg acttggcctc catccctgcc accgggatag 420
acggtcgagt gggttactgc 440

<210> 54239

<211> 488

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-043-Q1-K2-D2

<400> 54239

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caggaaacaa cgaaccaaac cacttctctg tcgagaggcg tcgcgctcct ctcttcgccc 180
tctgctgtta tttttcttaa cccggctntc tctcgattgc tgcgtaaagt tgaagatgag 240
gaagctcaag ttccatgagc agaagctcct caagaggcac aatttcttgg agtacaagag 300
ggagggcggc caccgcgagg cgctcgtcac acagcgctac cgctcgtgg agagggacga 360
ctacaagaag tacaatggga tatgcttaat ggtgcaaaag ctcgtaaca tcataaagca 420
gatggacca agagaccctn tcagaatcca gatgacagac ttgattctcg ataagctgta 480
taatatgg 488

<210> 54240

<211> 166

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-D5

<400> 54240

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gttttccttc gtgtaatcgc ctagatatat atatttccat ttctaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataa 166

<210> 54241
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-D9
 <400> 54241

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 aaaggatgga atacactcag ggaagaaggc cgttccattc aacacgagtt gcgtgagatt 180
 agtgatattg aaaaccaagc agtaggtctg aagggaattc ttgatcagct tcccagagca 240
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 cgagtgtctc acgccgccct cacgaagatt gtgaactacg gtgtcccat ctgactgcca 360
 ctccagccag ttgttctgaa ggtccattgt attgtatcag atttttgtga aggaagacat 420
 gttcgatgtg taggggtgaac gctatacttg ccactttg 458

<210> 54242
 <211> 207
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-043-Q1-K2-E10
 <400> 54242

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 ttatttttaa atataaaaaa aaaaaacttt tccaattata ttatttaata aaaaataaaa 120
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 ttctactttt ttttaataaa actttta 207

<210> 54243
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E2

<400> 54243

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aaaaaaaaaa aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggaggt ttgtttt 117

<210> 54244

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E5

<400> 54244

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aagtagtgca gttcgcacgg gttctctatt tcagaacctt ggttctttgc ttctggaact 180
tgggcgcacc acaatgctcc tgcgtataaa tccgtcatct tcagaagcgg ttgtaaactc 240
tggaaccagct ctttatatat ctccatcagg gccaaatcct cttatgggtc aacctgttcc 300
atttccagga aggtctgtcc aaatgggtac tttgttttct agtctgggtt cacaaggatc 360
tgtttacat ccgagagatg ttgatatcca tgtccgcaca agtgggtccg tgctggagc 420
cagtactaac ccaagtgatt cagctggtgc gcaagcgcac caaatgtga ataggccagg 480
agatgcttcg catgcaaata 500

<210> 54245

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-E9

<400> 54245

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aaaaaaaagg gcgggccttt ttaaaaaaat ccaggcttac ttacccttcc atgcaacctc 120
ataacttttc tataccttca cctaaattca att 153

<210> 54246

<211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-F1

 <400> 54246

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ctccacagaa taatgcgcaa attccatgga ttctgatact agaacatggc cgtgggtgtgt 180
ttcacaggac ggcgcctgcc tctgatttga gggcgaagtg gaggagcatg canaggaaaa 240
agtgggcaag ctactgatct tacacgcnc cgcgcacgta gctgttgtgt ctcatgctaa 300
attactaacc ataccttcat ttctctgtgt ccactctgcag atctgatagc cgtgacatgg 360
aacactgacg tgggtacttgt acatagcgaa tgtgcaagta ngaaatgagg aggggtttctt 420
ctaattactt ttgcagccct taa 443
  
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<210> 54247
 <211> 482
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-F6

 <400> 54247

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tcgaagcgaa gcaagcaatg gccggagtcg gatcgaaggc cctcgccggt gccgccgttc 180
tggcggccgt ctcttctcgc gtggccgccc cgcccgaggc gcccgcgccc agccccgtct 240
ccgccgccgt cgcggcgctc tcgcccttcg ccgcggctct cgtcgccctc gccgccgcct 300
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agtacttncc ccgccgccgc cgccgccgcc tagatctatt tattggagtg ctatccagta 420
gtactagtag tagtgagatt tgttcggtgc tgcgtgtcgc tcgtcgcat tgggtcggat 480
ct 482
  
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<210> 54248
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-G5

 <400> 54248

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cggaattccc gggtcgaccc acgcgtgcgc tgaaaatgaa gatgatgacc acttatctta   60
taatgttcct gatccagatt tccatgantt tgacaagagt cggactgagg aatagttcca   120
aagtgatcaa aatttggtta catatgatga tgaagatgga atgcctcgta ttatgcatta   180
ttcaaaaaag tctttccttg aaaccattca agctcagaat aagctatctc acatcaagag   240
caaatagtga atttgggcct ttgaattggg tttcttctgg cttcataaag acttgtggtg   300
atttcaggat tggtaaatat gaaagctgtg atatagtcaa catgttctct               350
  
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<210> 54249
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-043-Q1-K2-H2

 <400> 54249

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gccgtcntcc gtcntccgcy gcgaccggcg gcggggcctg ggcctgccgc tcatccgcat   180
gctccccgtc gtcaagttca ctgcgcctc ctgcgacgcc ggcgccggcg ctggtggcgt   240
ggcgccgagg atatccgtgt cggagtgcgc cgtgtgcctg agcgagttcg tggagcgcga   300
gcgcgtccgg ctgttgccca actgctccca cgccttcac atcgactgca tcgacacgtg   360
gctgcagggc                               370
  
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<210> 54250
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-043-Q1-K2-H4

<400> 54250

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accttcgtcc ccgtcccgga tccggggcgc ccctgatgcg gtgcccgcgc ggcgcgatcg 180
cgtgacggac ggccgccatg gatccccccag gccgcggcga ccaaggcgag gcgccgcagc 240
cgcagccgct ggagtggcgg ttcgctcagg tcttcggcga acgtgccgcg ggccaagacg 300
tccaggaagt tgacatcata tctgcaattg aatttgacaa atctggtgac catcttgcca 360
ctggggataa aagaggacgt gtgggttttat ttgaaaggac agatgttcgg gatcagaatg 420
ccagccagag agaactggag agacaagat 449

<210> 54251

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A12

<400> 54251

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aagtgactgc aagacatacg tgatgttccc agctaatacca aaggctcctc cttcggatgc 180
ttgctgtggt gtcatacaaga aggcaaactg ttcttgcttg tgctccaagg tcaccaaaga 240
aactgagaag gttgtgtgca tggagaagggt tgtgtatggt gctgagcagt gtaagaggcc 300
at ttgagcat ggcttccagt gcggaagcta caaggttcca gcaaactgat gatatcgcaa 360
gaggggaagcg cttgacgtag tcttttagatt tcaattgttg cagccgatca accttcttag 420
ggttgtataa ta 432

<210> 54252

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A2

<400> 54252

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taagtgtaaa tttgggttcc cgaagggttg tttatgcca tttcgcttat gagcttctct 120

ataacatata gttaacactt aacagctgct ccgcatttgc aatctccctt gtttcataat 180

gagtcgactg atggtatcaa tctgtcaaga tatatttggg tgaa 224

<210> 54253

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-A7

<400> 54253

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gagcatatat aaaacaatct aaagaaacca aactaacata cccttgcatg ctactaaata 120

actcttatct agtttcacca aaattcatct cattggccgt cgtttaacaa cgtagtactc 180

tgataaaacc ctgtctttac ataccttaaa tcgccttgct acaaattccc attttgccaa 240

ctggcttaat ttcaaaaagg cattcaccga tcgaccttcc cat 283

<210> 54254

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-B11

<400> 54254

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tcttcaatac ggacttgaaa catgaattct gattttctta ttactacctt caagtttcag 180

ctaaaatact ataaaacaaa ctaacatata tataactaaa aataaactaa tcttccttcg 240

atctagacaa ccctacctta cgaccacgct cttatgcaca acaatatatc tttttcatac 300

ccactattat atttgcattc accacttgca caaactttgt tgcttactaa tacctttttt 360

tgcttactta ctaaattttt actctaaatt gttatcttcc aaattttcaa tttgtt 416

<210> 54255
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C11

<400> 54255

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gtgaacaaca aggacatcga gaacctcaag gtccagggtg agaagtttgc cgactccttc 180
gacatgcctg ggttcacgct tgagagcatg aaatacaagg agtagatatg cctctttcat 240
gcgcggcaag gtctctctgt accgatgtct ttccttgtgg tggctcatgg tgccatggca 300
ctgcattgcc gccacactta cgatgatgat gatgggttat tgattttgtc tacaatgtca 360
tcat 364

<210> 54256
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-C12

<400> 54256

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ttcagcgggc gcgtccaggg tgaacccgaa tgcccatcac catggcgggg ggcaagatcc 120
agaagaagcg ccacggcgcg gcgggagggc cccggctgca gggcggtatc ccgttcgaga 180
agtccaaggg gcagcacatc ctgcggaacc cggcgctggg ggactccatc gtcgccaagg 240
ccggtctcaa gccaccgac accgtcctgg agatcgggcc gggcacagga aacctacca 300
agcgccttct cgaggctggg gtcaaggccg tcgtcgccgt cgagctcgac ccgcgcatgg 360
tgctcgagct caaccggcgg ttccaggggc accgctctc ctgcgcctc aaggttatcc 420
aaggagatgt cctcaaatgt gatctcccat ac 452

<210> 54257
<211> 191
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-C5
 <400> 54257
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 gagtctttta aggggggtgct tcagggtgtgc gtgtttgcgt tccttctgac tcggtgtctg 120
 attaccaaatt tctatctgat gtatccgctt cagtttcgaa ttaaccatgc cagaagcttt 180
 taatattttc t 191

<210> 54258
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-C9
 <400> 54258
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 aatctgacga ttacaaagga tatgaaggat tctatatttg tgtggtatca gctggatgac 120
 ttttaccaga accataggag gtatgtcaag agccgtaatg atgcacagct aagagataaa 180
 agtaaggcga gtgactttac caattgtgat cctgaggcca aaacggtaga ctgaaaacca 240
 attgtgcctt gtggtcttat tgcattggagc ctgttcaatg atacatataa actcattcac 300
 aacaatgtaa ccttttagagt ggagaataat gacatctctt ggaaaagtga cagagaccac 360
 aaattctgga gtgatgtctt tccaaccaac ttttaa 396

<210> 54259
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-045-Q1-K1-E12
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 cccgcggcag catgctgctc caccctgcgt gcgcaggagg catgcttgtg cgtgtacgcc 180

aaagacccca agtttgcaaa atacatcaac aaccccaaca ccgccaaaac ctttacctcg 240
 tgcggcatag ccatcccca atgctaagca agcgctctgc gtcgctcgctt cgcttgctct 300
 tgctcttggtg tgtaacatat ccagcttatg aataaattat gtggatcagt taattagtgg 360
 aaaaaaaaaa attaatattat ttatttttat atttt 395

<210> 54260

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E2

<400> 54260

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 ccgatcacc accaacatac tacgaagaca tgcagcgctc ggtgttctgc ctctgcccg 120
 tgggctgggc accgtggagt ccagggctag tcgaagccgt ggtctttggc tgcatcccgg 180
 tgatcatcgc agacgacatc gtcctcccct tcgaggacgc catcccgagg gagagatcgc 240
 gcgtcttcgt tgcagaggat gatgtccgc agctggacag catcctgaca tccatcccca 300
 cagacgtcgt gctgaggaag cagcggctcc ttgcgaaccc gtcgatgaag catgccatgc 360
 tgttcccca gctgctcag ccaggagatg cgttccacca gatcctgaac ggcctatcgc 420
 gcaaagctcc gcacggcagc aatg 444

<210> 54261

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E6

<400> 54261

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 ttatggagaa caatttgcct aatgatgtgg gggaattgct aaattattgt aatttcgcaa 120
 gagttccaac atgaccacga tcagtgttg caaacaggaa tgtttaacca gctcaaaaag 180
 taatcgatgt gttcgaactg gtcaatccag ttactcctga agaaatgtcc catatggcaa 240
 ttgatagaga agctaacc aattccataa ctaattttga ggaaaacagt aaagactagc 300

tctgtggtca agaccaataa cgtgcttaag aaattaatat ctgcaatcaa gttggctaata 360
caatggcatt tca 373

<210> 54262
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-E8

<400> 54262

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gcttaccctc aaccgctgag gtggacaaat atgcgagggga agtaccgcaa ggatgctgag 120
atctgcgtca acgtgggtga ggaatccgtg cgtgcatcac ttggaaagag gaagaccgca 180
cctaagctgc cctctggcgc agacgctaag aagcttaagt tttggtagg aaagaacaaa 240
gtagaagaag atgaaagtga tagtgacact gatgtggatg atgaggacat tgaagatctt 300
aagagcgcag atgcaaaatc tgtagaagtt gttgatggca tttactcaaa atggatgcag 360
aataaatgag gagaagcttg atccttggtt ctgtttttg 399

<210> 54263
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F11

<400> 54263

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tctgtcaccg cggcctcgcc ctgcgcggca tggttgctct tacgacggcc tgtgcgctac 120
gccgtcctcg gcgcgggctt tgcgggtctc tccgtcgcgt ggcacctct caagcatagc 180
ccgagggatt cccgcgtgtc agtggacatc tacgacgaga acggggtcgg cggaggcgcg 240
tcgggcgtct cgggtggact tctccatccc tactcgcta aagtgaaact tctctggagg 300
ggtgctgagt tctggaaaga aagcatggat ctcttcgca gcgccgagca agcaaatgga 360
acctcggtat caaatacaac tagtcaagat gataacctta tcttgagaag ggggattgta 420
cgaccgtcta caactgataa agcttgaacc atattgcttg agaatgttca aaaat 475

<210> 54264
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-F5

<400> 54264

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aaaaaaaaat aataaaaaaa attaaaaaaa gatattttat aaaataaaat aaaataaaaa 120
taataatatt aaataaatac atatataaat aataatatat aattatacat atat 174

<210> 54265
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-G11

<400> 54265

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tctgtccggt ctccactcgt ccgggctact agactactac tgagggtttc tgcgggggat 120
ttgtttgtcg ctgactcgcc ggcgaccaag atgaggccgg ttttcgtggg gaacctagac 180
tatgataccc gccactcgga gctcgaccac ctcttctacc gctatggcag ggtcgagcgc 240
atcgacatga agtcaggctt tgcttttgtc tactttgagg atgaacgtga tggcagtgat 300
gccatacgtg ctcttgatgg ttatccattt ggcccttgca gacgcatgct ttcagtagag 360
tggtcacggg gtgatcgaac tgctagacgt gatggcaaca aaccagaagt aaatactaag 420
ccaactaaaa cattgtttgt cattaac 447

<210> 54266
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-045-Q1-K1-H11

<400> 54266

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aaaaaaaaca gaaatttttaa aaaaaagaaa gcaagaaaaa aaaaaaaca aaaaaaaaaa 120
aaaggccccc cccctaag aaccaacct aacgtacca tccatccaac atcataactc 180
ttcaatagag ccacaaaat ccaatt 206

<210> 54267
<211> 129
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-045-Q1-K1-H5
<400> 54267

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accttcaata cactaaacct tacttcatgt tcctagtcct gcttaaggcc cttgcctgtt 120
actagcacc 129

<210> 54268
<211> 170
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-046-Q1-K1-A1
<400> 54268

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tcctgttttg agatacctgc tcctgccgac taccgagagt taccctactc agtctgcgtg 120
ctggcacggc caactaggat atcaactagg atgagtcgag gaggaatggc 170

<210> 54269
<211> 137
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-046-Q1-K1-A10
<400> 54269

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ccttatctga agcatcatct acgtacttct ttaaaactac atcaccactc ttaacttctg 120
ccaaccctac accctta 137

<210> 54270
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-A2

<400> 54270

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gctcatgtct ctactccaca tgaacttgta aacgataccc agatccaggg tgactacata 180
ccttatactc gtagttagaa acctccactt aaggcactat accatgcata ccttactaat 240
ttatcaccta cctttttcaa tcaaatacta gaattgatga tgtcacaaca acatttacac 300
cctccatfff ttttattttt attttacta tatttttcat tttaaccttt tattctt 357

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<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B1

<400> 54271

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ttttgaagct ttgaacctg tagccgttgc tgttgatgac taccatcc agagtgtgaa 120
cgtgaaggta gttattgatg cattccacct cattaatcct cagaccatga tgctcgccca 180
ggatccacgt catacatcat catatgttgg gcacctaaat aagccatcta ttcacgctct 240
tatccatggg ttgaatagac actactattc aatcgcaatc aatttaccgc aaaaat 296

<210> 54272
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B3

<400> 54272

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tgcaccgtct gagttcttag gtgcttcgtg atgcagtggg caaacatacc aaagacgtga 120
tagctgtatc gtttccctat ctgagacgtg gacttattta gcttgctttg atattggtgt 180
cttattttctc ttatgaataa tgtggacacg catgttgtgt cgcccaaaaa aaaaaatata 240
aataaac 247

<210> 54273
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-B8

<400> 54273

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aaaaaaaaaa aaaaaaaaaa aaaagaaaga ataatttaac aacctttcta aaccatccaa 120
gctaactaac tcatacatcc aacataatat catcacaaaa attaacacca aaatccaatt 180
cacttacctc ctattaacaa cattaaaact aaaaaaacct tatcattacc caactaaatc 240
accttac 247

<210> 54274
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C1

<400> 54274

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ccccgaaacg atcaacgaaa gacatgctca gactaatatc atcaagcttg caaataatat 180
gcattttctcc attcccgaga tccgccaatt caaagctatc acccaccatg acacttgcat 240
gttccgacat taacgct 257

<210> 54275
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C2

<400> 54275

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aaagagcaat actgtaactg aaatgttgct actactttac atcagtttca tcctggggca 180
tataattgca ggtaccctat ctatagaatc ccaactggac caacactcaa ggatttggat 240
gcatgtttct tgacatttca ttacttatca acacctacca atgatactga tcccagttca 300

<210> 54276

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C5

<400> 54276

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tcaaacttaa atattagcta ttacaagaaa tcttgactca ttaactttta tcgagttctg 180
tactcataat ttctatactc tcacaattat gatcacgtta caaggactct tcgataacac 240
aatcacccaa ttcatgtatt actctcatg caataacctg ctgttactgg atcgtttcta 300
actgcaataa caatcaaact tattcccatg attcaccaaa gtgaaaagta tcacaagata 360
atagcaatct gtactaataa tcctt 385

<210> 54277

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-C7

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gggtggaacc tgaatcttta cgtcgggtccc ctttagtacc tcgtcatcca aatcatata 120
tgagatcat ggaaacgata caaaagggt agcgtccata ctatatacag aatattaacc 180

acaaccctcc aaatccttat caaccaatct cataaccca tatctcaccg aaaccacaac 240
catggtaaaa acatgggtcaa ggtaa 265

<210> 54278
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D5

<400> 54278

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acagacgtcg tgctgaggaa gcagcggctc cttgcgaacc cgtcgatgaa gcatgccatg 360
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cgcaagc 427

<210> 54279
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-D7

<400> 54279

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atcgtgccc cctactcca ggttgccata tcactcgcgg ccccttcgcc tgcgactatc 120
accatccatc ataaatagca tcaagcactc gaacttacag cgagattgaa aatgatagaa 180
ggcaactaca tcagatcgat ccaagaagac cccattttcc ttgctgcata ctatgtactc 240

<210> 54280
<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E12

<400> 54280

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aagcagctgg acgatgatct cagcctttt ttaatacaag cttggacagc cagagcacc 120
tccacttggg gctccacctc atgtgtggca ttcaaattctt 160

<210> 54281

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E5

<400> 54281

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gtatttgact tcattcttat tgagtcgaaa ttataaatta tgggtcttctt ccatcactcc 120
aacatatttt gaaaccaacc atgaatcaag aattagtttc ttaatcccta tatctgattc 180
atttagactg tatectactg catatgatat attgttaggt tctatctatg atccttctta 240
ctactcttca ctgttcgatg atgtcctaaa caatgcatgc aatcatcaag gtgataaaca 300
aaatttttagt aatgacaatt gttcaacatc ttcatgccat acaccactac ttaaattctt 360
tgctaattgat gtttaaagtt gactaaaaat accctttaac ttctat 406

<210> 54282

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-E6

<400> 54282

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cattcttatt cgttcgtatt ttttacatac atgtgctact cccatcactc caacatattt 120
tgaaaccaac cattaatcaa gaattatttt ctttaagccct atatctgatt caattagact 180
gagtcctact gcagatgata tattttgaag cttccatcta tgatccttct tactactcat 240
cactgttcta agatgtccta aacaatgcat gcaatcatta tgggtgata 288

<210> 54283
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F5

<400> 54283

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 ccccttcgag gttctcgacc aggaaggact ttttttagctg gttaagcttg ctacacagag 120
 gggccgcaaa gctaggccta acttgaaggt cggcatttgt cgagaacatg gtagagagcc 180
 ttcacatcggtt gctttcttcg ccaagactgg gctggattac gtttcttgct cccctttcat 240
 ggtcccgatc gctaggctag ctgcagctca tgtgcttgct tgaggggctg cctcctcggt 300
 ggcagcctgc tgtaagtgca tctggtgatt aataatacta ctatgacaga tccatatgct 360
 ctgtgaagag tattagtagc agcgctcata aaatctacaa ttacatctat attctcaact 420
 atgtaaaaact ttcaaactgt tcatgcttaa aaac 454

<210> 54284
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-F9

<400> 54284

gattcccgtc cgaccactc gtccgaagaa actgctgctg agatgggtta ctactcgctt 60
 ttggtgggct caaaaactta gttttctttt caacctgcag cccacctccc cctgctacta 120
 ccccatcttc cctactacc tcaatctcaa gtactagaac t 161

<210> 54285
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G1

<400> 54285

attcccggtc gaccacgcgt ccggtcggcg tggctggttg ccaagaacac cctttggatc 60

atgccctgca agctcccgcc cttcgaccgt tatgatgtcc gcgtgcgcat gactgcagag 120
 gggatttgcg gcagcgatgt gcactacctc aaggagatgc gcatgggtgca cttcgtggtg 180
 aatgagccga cgggtgaacgg tcactagtgc tcagacactg tcgatgaagt tgcttcgcta 240
 tggacgcata gtactgctgc aaatggagtt tcgcattgta gctgataaag tgcctacaag 300
 gtgcatccat atgtgcatag gtggcactga atcggggctc actggaccag tttgatattt 360
 gtagtaatat atatacatgt gggagcaaca taatttatgt ttcgatcatc attatccaat 420
 ttgattccct gttataatgg atcacattgg aaaaaccctt acat 464

<210> 54286
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G3

<400> 54286
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 ccagcctggt gcccttcttcc aaagcggctg tctcccccat aaataaagca gtcctccgg 120
 gggcggcgaa ctactcctcg tcgccaaaac cctagccctg cttctttgcc atggcgagca 180
 gcgctagcca ggctagcctc ctgctccaga agcagctcaa ggatcttgcg aagaaccccg 240
 tggatgggtt ctccgccggg cttgtagact acagcaacat cttctagtgg catgtcacca 300
 tcacgggacc ccttgacacc ctatatgatg gaggctacgt taatgcaata atgacctttc 360
 cccagtacta ttccaacagc ccgtcatcag taagatttac ttctgagatt tggca 415

<210> 54287
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-G5

<400> 54287
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 agtattatga ttctactcct gaaacccatg agtgggtggat gcattaagaa atcccaagta 120
 ggaatgcagg cattgcacat gacttcacag gaacatgccg ctcccttgagc cgtgatagga 180

atctcactga atcgggtccca ttctctagta tgagaatgag acctgggtcat tcttctccag 240
gctttccact ccaagcatca cctcagctat gcactgcagc agttagggaa gcaaaaaaat 300
ggttggaaga gaaaaggcag ggactgggag taaaacctga agacaatgga tcatgcacat 360
taaatacaga tatatttagt tctcgtgatg actctgacaa gggttc 406

<210> 54288

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H1

<400> 54288

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tggataggga ggctgttaca ttattggata agtgggtacc caggcatgcc agttgcagtc 120
ttccaacatt ttttgataag gctgagaggt taatcaccat caattccaca tccagcagtg 180
attgatgcct gggttcagttt ttcagctcct tcgacttggt ttttagaatt caaaagtga 240
tcaactgtga ctttttggtg cttgtctaga ccatgtatct tctatgggga tcgacatatg 300
tgatggt 307

<210> 54289

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H10

<400> 54289

tactcggttc cggattcccg gggcgacca cgcgtcctgg gcaatggaga atctggtgta 60
tatcttaatg ataatttgca caagtcacat ttagtacata cttaactgat tgatactgat 120
ccaagtgtga actttcacga caatggtggc ctctctgtgt cttcgtctca aaattcactt 180
gtgtac 186

<210> 54290

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H3

<400> 54290

tccggattcc cgggtcgacc actcgtccgg gggaaagcat gcttaaagaa agtgttgctg 60
tatcaattgt cttcaggagc taatggaact agatggggta tgctaggaat aggtaactga 120
tgtctagcag gcagaaaatt ggttttcctt aacttcagct cagcgcatat gtgacatgtt 180
tcttgcaacta gataaggata caaacagtac actgagcaaa caagaactca aggaatatgc 240
agatggcaca ttgactgaga ttttcattga aagagttttt gatgagcatg tccgcctgag 300
caaaattgga agtggaaaca gtctcgagat ggacttcgaa agccttcttg gatttgtttt 360
ggctct 366

<210> 54291

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-046-Q1-K1-H8

<400> 54291

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gcttggaata acgtagtggc tgactgatat gccagtaggc acctgtctag tacttacaga 120
actacaaaaa gtttgtacta tacatatatg gacaacctta taagtggcta tgtgtgtacc 180
aaaaaaaaaa aaaatattaa taattttata aaaa 214

<210> 54292

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-047-Q1-K1-B8

<400> 54292

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catcacagcc accagacttc gctcgctta cgtatacacc aaccacctc cataaaccgt 120
atgcacagcc accttaatgg tatctcttca tcttctctt cctacaacag gactacttcc 180
atctagctca tgacagatac caccttatct acattttctc atcctgtatt gctaatttta 240

tctccctatt tcttcttttt tatttttttt tttttatttt tttatttttt atttttttat 300
 ttttttattt aatattatta tttgttttat ttttttattt ttattttttt ttttttactt 360
 tttttctttt ttattttttt tattttattt ttttt 395

<210> 54293
 <211> 275
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-C10
 <400> 54293

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 gggtagctca tgtcaaagtt tatctcgtcg ctgagctgta ctaatcatat taattgtacg 120
 tgcgagtaag aagttgatgg gtcaagttgt gtgtgtaatc ggttgtgcc aacctgtac 180
 ctaatccttc gcttcgctta ccacttacca acttattttt atattttttt tttttaaagg 240
 gcgtccgctt tataggatcc aagcttactt actct 275

<210> 54294
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-C12
 <400> 54294

cggaannccc annncgaccc acacgtacgc ttcaaacaca tattactaat aatgtttccc 60
 tttcatcata atcccccta caaaaggaac cgttctcttt tatacaaaa catccttctc 120
 aanaactcca acatattcta tccaaataat actctctatc tacatttgac actttcaaac 180
 ttaacctttc atttacataa tattacccaa acaaaccacc aacttttcta ttttattcta 240
 agatatttta tccaaatata tattcttata taaacaatct ttttgatatt ctacaaaacc 300
 attttaatcc tatatatgat ttttctccaa ttttaacttt ttatttcatt ctattctttt 360
 attta 364

<210> 54295

<211> 86
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-D12

 <400> 54295

 ggtccggaan nccccggcgcg acccacgcat ccgcaacaag actctacaca acctgttctt 60
 cgtctatatg aggctggggtc tcttca 86

<210> 54296
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-E11

 <400> 54296

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 aaataaaaca aaaaaaaaaa aaaaacaccg aactctaaaa aaaaaaaaaa aaccaacca 120
 acccaaaaaa caaaacaaaa aaaaaacaaa acaacaaaaa aaaaaaaaaa acaaaaccat 180
 tggcccatc tcaaatatac ttacctcaac ctccacacaa tttaaagaaa aattcccatc 240
 acttctact aaaaaaagaa ccaaaatccc catttcaaaa acaccaaca ctaaaacaac 300
 cttaaaccaa a 311

<210> 54297
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-047-Q1-K1-E12

 <400> 54297

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 gatttgctgn ggcncncnc ctcacctcgg ccgtttatct tatatcttct ccacacctcc 120
 caccanctnn anccaaaaaa tactaaacaa tatcaccttt acatactttc tataccatta 180
 acaattacct ctatcttttc aaaaactcta tcttttatct ctttatcttt attcattatt 240

attttactat ttttttaaatt tt

262

<210> 54298
<211> 271
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-E9

<400> 54298

taaagacccc ancatcaatc gttctgttca tatactgctt catctgtgtg tggtttctgg 60
gttttctatc tttcttccac anccatccca agagcacaaa ccagatttgt accctctcaa 120
ctataataat atagttggat tccacccgca cacatatagc tgacaatcct taccttacac 180
ccaatgcata taacaattaa tatctcattc ctctaaaaag agagcctaaa gccctatttc 240
attttcaccc attactaatt ctgattaaac c 271

<210> 54299
<211> 89
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-F9

<400> 54299

ccgggtccga cgccacgccg tccggcgnga acctacaaca ccgcactcta cactactcca 60
gtctgtgaat ccgccccacc cccgcaccc 89

<210> 54300
<211> 492
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-047-Q1-K1-G12

<400> 54300

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ggctgatccc agaccatgct aggcgncgtc ttgttctcac ttatttgccc accgctggac 120

cataggcgaa ggctctatgg tgtttaaaccc ttgctctttc tgattcttcg ttgtgccata 180
 ggcaattcaa ggtgtagaat ctgaccatta ttggaaagcc aaacacgagc tggcgccaat 240
 gtgttgcata atgagaggcg gtatgttcgt gcagccagcc ttttgccgcc tgttttaatg 300
 caaaatctga ttttacttaa gcagtgtgag gggaagtgtg ttggtttatt ttattatattt 360
 tttatatttt tctattttatt ttttttttta ttattatattt tataatgtgg ttttcttttt 420
 atttatactc ttattttttt tatttttttc ttctctattt tatttttttt ttttttttgt 480
 ttatttttatt at 492

<210> 54301
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-047-Q1-K1-G7
 <400> 54301

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 aaatcagcgg ccaaaagaaa ctcgagtgtc gtcagctaga ccatattaca tgccggacaa 120
 tttgttcgga gacctgatcg acgtgaagag ttttgccgcc ggaagcaaga tcagcaggtc 180
 taccagcatg ccgagtccaa aggggtggtg ccagcctatg atcggtagaa acaaataggc 240
 ctctgctgtt taagataggg atgagcatat atttagctgg tagccactgt cgttttggtt 300
 gattgtaatt ttgctgtctt tttttacgtg tcaatttggc tgattttgtt attatgggta 360
 tatttttga ttttcttttt tttt 384

<210> 54302
 <211> 414
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-047-Q1-K1-H7
 <400> 54302

tcggtctcgg attcccgggt cgactcacgc gtccgccac tcgtccgggc ttgctccgg 60
 ttattcccag gtgtcagtat ggactggttt tgtttgtatt ccattctact gtttcacaag 120
 ttacatgtat atttatcgag tctattgaat atagttctta ttatcatttt tcatgttcaa 180

tctctttttt tcttgatcag atcaattctt ttctttaatt attttttttt cttttttaaa 240
 atttttttat atattttttt tttttttttt ttattttttt tttatttctt tattcttttt 300
 ttttttatct attttttata ttttttttat tttttttttt tattttatta tattttttatt 360
 tttttttatt tttttatttt ttattttatt ttttttata atatatattat attt 414

<210> 54303

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-A7

<400> 54303

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 acttccctga taagattgta tcgtaggcag ctgagttcca gagcaggatc ggtttcgga 120
 tgattggtgt ggggtgacatc atatatitgg ttggaggagt gattggacct gggccgagaa 180
 accaatgcat taagttgcat tctgatgttg atatctggaa cgtcacaatg tgtgagccaa 240
 cctggagacc agtgctgctg atgactcatt ttcgaggtag catctgtggc tgcgctttgt 300
 tgaggattt 309

<210> 54304

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-048-Q1-K1-B3

<400> 54304

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 acgctttctt ttcctgtcc ggttcaacct ccaaccctgc cggctgccgc ggcggctgat 120
 taacacaata cttgtcgag agacgtaata gtttctgaac tcaccgcgct acgcccgatg 180
 tcggagactg cggctccgat cggcctgtca tgggctccca atgctttctt ctttgcaacg 240
 accagcggcg gcagctagat cgaccacgcg ccggatccga gcaccgcgca tggctcgctc 300
 tggaagcgca cgagcgagct 320

<210> 54305

<211> 147
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-D2

 <400> 54305

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 ccgcccccttc ggccggcatga gcngggccct catctactgc accgccagca tctcctgcgg 120
 gcacatcaac ccggcgggtga ccttcgg 147

<210> 54306
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-F5

 <400> 54306

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 aaacatggta tttttcaagg tagtcctttt ttactatct cttgagaagt ttatttttat 120
 tattttacat ttcataacat tgttatatat aaactgtt 158

<210> 54307
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-048-Q1-K1-G11

 <400> 54307

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 aattgtcttt atagataacc ggtctttcct tagatacttt atacagtcna atgccgcatt 120
 ttagtcgatc tttcttctcc agttgctgtt ggtgctagga ggccttgagc tgttgagggt 180
 acttgccctg cntntattat gacgtatatg tacaagtctt tgtgttgaca attacacggt 240
 gtttttaatt tcagtgatac acttcagtc cttcatacgt acttcctgga tgtttcaatt 300
 tgcattctag ttagatattg atccatctgt tctatattaa aat 343

<210> 54308
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-G5

 <400> 54308

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 gcgaacatgc aactgtctcg gggacgaggt gttaaatacga agcatgctgt ggtggaaaac 120
 ctgtaagaca acgggtggca cctgtctcct gatgaggatc aaaatgctag tccaaaacaa 180
 actactgtga agtatatggg agtgtccctt tcagtctcca caccattttt ttgggttaaa 240
 aaatgtgctc aggtgatttt caaacgcctc tcagagaaga gtgctgattc caaca 295

<210> 54309
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H12

 <400> 54309

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 aaaattataa aataaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa ataaaaattt 120
 aaataaaaaa aaaaataaaa ttaattattt ttattttatc ttatataaaa aaaaaacaat 180
 taaataaaaat taaaaactta atttctattt attatatattt ctttattaaa ttaaattctt 240
 ttttataaat aaattttttt tttata 266

<210> 54310
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H2

 <400> 54310

 aaaaaaaaaa aaaaaaaaaa aaaaattaaa tttaaaaaaaa aaataataaa aaaaaaagga 60
 ag 62

<210> 54311
 <211> 330
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-048-Q1-K1-H5

 <400> 54311

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 atttctgctt gtcaccccc tcgtcgtgag aagggaatgg agtgtcatgg gggagagatc 120
 caactcgttc tcacaggact ccaataattc tagccctgct gaaaacaaac tcgaaccagg 180
 tcctcttttc atattggtta tattggttat ttattagggg tcagtggagct tcgaattgag 240
 taaatctgta attacttcta cactactaat tatcattatg tgactgctcg taaaggtgaa 300
 aagtccttcg catcggaagc atactgtgag 330

<210> 54312
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-A12

 <400> 54312

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 attccctccg gtgatgccat tttcatgaag tagtttctgt cgacgtggac cgacgacgag 120
 tgcacggcca tcctgaggaa ctgccacgcc gctctgccgg acggcggcaa gctcgtggcc 180
 tgcgagccgg tggcgctgtg ggagacggac agcagcacca ggacgagggc t 231

<210> 54313
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-A3

 <400> 54313

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 cagttcgagg acaggctctt cactctgcaa atagggggca ctgctggcca ggaaagggtt 120

cagagtctcg gcgttgccatt ctaccgggga gcagattgtt gtgtcctagt ctatgatgtt 180
aattctatga aatcatttga caacctgaat aactggcgag aagagtttct aattcaggct 240
agcccatcag atcctgataa tttccctttt gttctgttgg gtaacaaagt tgatgtagat 300
gggtggcaaca gccgcgtggg atctgagaaa aaggcaaagg catgggtgtgc ttccaaaggg 360
aacatcccgt actttgaga 379

<210> 54314

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A7

<400> 54314

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gctctaaggg ttattttgac ggcttcatt ctgtcatatc gtttaagccc acaatggtaa 120
cgatactgtc ccctgagggt gcagaaaaag aagcagaagc tgggtgggaag acgggtgacc 180
tagattctta tgagattgaa ggcggtgaga caaaagcaga gatattgcaa aacctagctg 240
agttccagtt ttcttgtgtc atgtacaatg gtgccctaga gaatgcatgc agtgagcttg 300
gagcccgtat gtctgccatg gacagctcta gcagaaatgc tggcgatatg cttgatcgtc 360
tgacgcttac ttacgacagg acacgcctag cattca 396

<210> 54315

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-A8

<400> 54315

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atgctctgca ggatttctag actttctaaa ataaatggaa ccatacagc tatgaaatca 120
ggtatgcttg cggcggaagc aactttcaag tccctcgttg aaggatctta catggaactg 180
tactgctaga acctcatgaa gtcatggatc tggtagaac ttcataaagc ttgtaattat 240

<210> 54316

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-049-Q1-K1-B12

 <400> 54316

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 catgctctgg ttgtggttac ctctatttat gctacaggct tggtagcta ccatatcact 240
 cgctatctac aacgctagtt tgccgcatcg agaaatatta tgtgatattg attgtcgagt 300
 tcttttttct atatcaaaaa atttattact tgtattcata gtcacatttg atgcatttat 360
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 <211> 306
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 <213> Zea mays

 <223> unsure at all n locations
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 <400> 54317

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 tcgggcttgg acgaaaccag aagacattcc gcccgaagaa gagcgctcca tcaggtagca 180
 aggagcaca gctccgaaag cacatagatg cactctcgg cagtggaaac cttatggaag 240
 ctgtgaggtt gcctcctgga taggatatca atgaatggct tgcggtgaat actgttgatt 300
 tcttta 306

<210> 54318
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3079-049-Q1-K1-C7

<400> 54318

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caaccttgct ctccaatttt ggcgacccca cattcccacg gcgcttgaag aaatcctagc 120
cccgtgctgc cgcgctgcag acggcacgca cggcatccat ggagaacgac gcgaaggagg 180
cgaggcaggg gcagcacagg gtgttcccgt gggggatgct caaggtgttc ctgctgctcg 240
gcttagggct gtccgcggcc gg 262

<210> 54319

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E10

<400> 54319

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accagcgctg gaagatcctg ccctggtgaa cgtgaacaga gacgagctag atgaatcaa 180
ggaaccttac ctagctgctg ccgccgtcgc ctaattcgtc ctgctccgct ctaagctgta 240
tctgtcttgg gcttcgcgta ctcggttcct gaaaggacga ataatatata gcatgcatgt 300
accggtagcg accatgtctg aatga 325

<210> 54320

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-E9

<400> 54320

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atcaaccttg tgggcattac ttcataacac ccatacttat ctttacttaa cagcaatcac 120

<210> 54321

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F12

<400> 54321

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tcctccagtt cgttatgtga actctgccgt gctact 96

<210> 54322

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-F7

<400> 54322

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ttcatgggtcc atctggccac gatccccatc accggcaccc gcatacaacc agtcaggagc 180

ttgggcgctg ctgtcatcga caacaacgac caggcctgtg atgaccactg gatcttc 237

<210> 54323

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-049-Q1-K1-H10

<400> 54323

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ggatgatata gggtcctctt ctggggtata tcaaattgtt gagtcagata ccgccaaagg 120

agtttggtac tttaggcaat ctttgcttct tctcagatta aactgtcctg aggcggcaat 180

gaggagtttg caccttgctc gtgagcatgc tgcgagtgat catgaaaggc ttgtctatga 240

aggatggata ttgtatgata ctggccactg caaggaagga ttgccgaagg ctgaagcatc 300

cattgcaata caaaggatcat ttgaggcatt ttttctgaaa gctaattgctt tggctgattc 360

tagtcttgat cc 372

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<211> 135
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-A5

 <400> 54324

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 tcctcatctt cacc 135

<210> 54325
 <211> 74
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B1

 <400> 54325

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 gtacactacc aaaa 74

<210> 54326
 <211> 76
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B4

 <400> 54326

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 tttgagtcgt cttgtg 76

<210> 54327
 <211> 60
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-B6

 <400> 54327

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<210> 54328
<211> 267
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-050-Q1-K1-B9

<400> 54328

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tntcctcccc tggcctcctg gggcgcttct ggcgagcagt gtgttggtgt gtgtgggtgc 180
cgcacgctag caggctagcc atgtgccctg ctgtgttgtg tcaccatcca tctataatct 240
tatccatacc ccaccttttg tgtgatg 267
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<210> 54329
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C4

<400> 54329

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ctcatccatt acaggtcttc atccattct aaccatgata atctttttat tctttcttat 180
ttctatttta ttaaacctct ttttatattc aattttatcc atttttatct ttccatataa 240
aaaactatth tttaaattht atcttttaaa attcttttca atatccatct caatcaatca 300
caattttaac atcatcttct actttaatth tatattcata ttcattctct tt 352
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<210> 54330
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C6

<400> 54330

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gaaaatgcat tccgaataat ttcaaatagt gcctataaaa gccctttatc aatcattgac 180
tttttctaata tatttcattt aatccttaata tttcccttta ttaatatattt tactttctat 240
ttttttttat tttaccttat atattttcttt taaatttttt ttttatctat tttttaattt 300
atattttttt tatattgttt tatttttagt ttttataatt tatttttctt gttttttaat 360
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tttttttttt a 431

<210> 54331
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C7

<400> 54331

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tataataaca ctataatact tgataactaa tataatccca ttttcctgat taatttatac 180
tttaaataac ctccatgtat tgtcatactt taactatctt cttcttttca tttataaata 240
ttattatttt aattttttct cttttatttc tttttaatat tcttttttat cattttattt 300
ttttctttat tttttatttt tattttattt ttttttttat tttttttttt tattatttat 360
tttttttttt tttttttttt tttttatttt tttttttttt tatttcttta ttatatattc 420
tttttatata ttttatatta atttttataa tttt 454

<210> 54332
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-C8

<400> 54332

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cctagcatca aagtttacga taacgcaaaa aattttattt gcactccaca tcacaccacc 120

atccaatacc attactacct tatcaaacat tactccaaat actac

165

<210> 54333

<211> 226

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-D10

<400> 54333

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acagcatgaa gatggtcacg gttctcaacg ggtcttggct ctgtcagctg ccaccccctc 120

tgcaatgcaa atgccctgcc cctgcgcggg gctgcagggc ttgtacggcg ctggcgccgg 180

cctgactact atgatgggcg ccggcgggct gtacccttac gcggag 226

<210> 54334

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-D8

<400> 54334

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ggagttgatt tatccgctgc agccatgagg aagttggagt cttagtctgt caaggatgcc 120

atctcccaga ttgttgggga tgccaaggag aagaatagga agttcactga gactgtggaa 180

cttcagattg gtctgaagaa ttatgatcca cagaaggaca agcgtttcag tggctctgtt 240

aagttgcccc atattcctcg tccaagatg aaagtgtgca tgcttggtga ttcccagcat 300

gtttaggagg ccgagaagat tggacttgac tacattgatg ttgaggctct caagaaaatg 360

aacaagaaca agaatc 376

<210> 54335

<211> 346

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-050-Q1-K1-E10

<400> 54335

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ctggaacctc agcaacctgc ccacggggggg cgtgggtcgac cgcttgcctca accagtggcn 120

gacgctncan gcggccggcc agaccgacgc gcacggcgcc tacagcttca ccggctacct 180

ggggggagtac gtcctcactg tcagctacaa caacaggacg acgcaatcca ctttctcgct 240

gtcgccggga gacgagacca ggcacatcaa cgttcaaattg tgatgcgcca acattatatt 300

tagggctcct cggatcggac tacttattac tagctgatgt agtgat 346

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<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-F1

<400> 54336

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aaaaaaaaaa aaaaaaaaaa ggaaaaagtt aaatttttaa ctcatacata ccacacccta 120

acaacttcta taactttact ataaattaat tttaaattcac ttacttttac aactttctaa 180

actcttaaaa cacttaaaaa aacctaactt aatcccaatt caatcacatt tccactaaat 240

ccatctttct t 251

<210> 54337

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-050-Q1-K1-G3

<400> 54337

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ttattttttt tattattttg taaatgttaa atttaaaatt tactttttct aacccttaaa 120

ataaattata ataataaaaa tttttacatt aaaaaaaaat actttacaaa ataaaaaaat 180

actccatatt ttaaaaaatt tcaaactt tttataaatt actttaaaaa atccaatttt 240

aaaaaaaata taaatactat tt 262

<210> 54338
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-H1

 <400> 54338

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 agcatctgcaagtgcaactgttactccatctgctcttacaacagctcattcatcttcatg 180
 ttttttaacttttataccttctataccatcatttttaatacc 222

<210> 54339
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-050-Q1-K1-H2

 <400> 54339

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 caactaattaacactaacgcagggttaaaacttaaaaaacttaccacctaaccctattac 120
 agccttacatataccatcatctccattttacatcttctcatctacttctttttattg 180
 ctatcaaactatatccactacaaatat 209

<210> 54340
 <211> 242
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-051-Q1-K1-A10

 <400> 54340

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 atngcgtgccgcgccgagtcggcccgctcaagcccttcgacggcgctagatctcgggg 180

tctctccaca tgaccatcca gaccgcccgc ctcctcgaga cctctaccgc gctcggcgcc 240
ga 242

<210> 54341
<211> 326
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B1

<400> 54341

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atgctgtcat gtactgaaag tncgggatct caagaatatc aaagaacttc cagaacaata 120
tattttgaag agatggagga aagatgctcg ttctgttcaa attggggagg aacctaccta 180
tgggtctggc agtgtcatgc gatcaacctc agaagctcga ttcagtatca tgtgtcgggt 240
ggctagcttg attgcttcaa gagctgccaa attcgaggat ttgatttcat atatacgaag 300
ttagtcaaat gcttttcaga aacatc 326

<210> 54342
<211> 255
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-051-Q1-K1-B10

<400> 54342

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cccacatcaa cattgtggtt attggccatg tcgactctgg caagtcgacc accacaggac 180
accttatcta caagcttgga ggcattgaca agcgtgtgat cgagaagttc gagaaggaag 240
ctgcttaaata taaca 255

<210> 54343
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-B5

<400> 54343

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agcacacca ctcac 76

<210> 54344

<211> 110

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-C1

<400> 54344

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gttgatcata ccatcactta tccagatntt ttattcttct ggggtctcat 110

<210> 54345

<211> 282

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-C11

<400> 54345

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tctatctccc gatctcgatg gcgaaccctc ncgtcttttt ttacatgacc gtcngccgcc 120

ccccggcggg ccggatcgtg atggagctgt acgccaacga ggtgcccaag accgcggaga 180

acttccgcgc gctgtgcacg ggcgagaagg gcgtgggcaa gtcttggaag ccgctccact 240

acaagggtc caccttcac cgcgttatcc ccgagttcaa tg 282

<210> 54346

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C12

<400> 54346

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 caacctcggt caagagaaga aggttcttga ggttcatggt gagaagggaa tgcaacacaa 180
 ccagaagatc accttccctg gtgaagctga tgaagcgctt gataccgtca ctggaaacat 240
 tgtattcgtc ctccaacaaa aagaccactc caagttcaaa aaaaaagggtg aagatctctt 300
 ttattagcac accctttctc tgacctaaac tttatgtggg ttccaaattg ttcttacac 359

<210> 54347

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-C9

<400> 54347

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 ctttttgtga gtgcaacaaa tgcgttcatt attccacaat gtcacttgc tccgagtgcc 180
 attattccac agttcctccc tccagttact tcaatgggct tcgaacaccc agctgtgcaa 240
 gcctataggc tacaacaagc gcttgccggc agcgtcttag aacaaccaat tgcccaatta 300
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<210> 54348

<211> 340

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-D11

<400> 54348

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 ccctatgtgc gtgccgaccg gcggcggcgg cnaggttatg gctatggacc cggacgcggg 120
 cgccaaagcc ttcgtggagc actactaccg gacgttcgac accaaccgcg cggcgctggg 180
 ggggctgtat caggagacct ccatgctcac cttcgagggc cagaagttcc agggcccatc 240
 cgccattgcc ggcaagctcg gatctcttcc cttccaggcc tgcgagcacc agatcgctcac 300

cgtcgactgc caaccgtcgg ggccctcagg aggcattgctc

340

<210> 54349

<211> 194

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-E3

<400> 54349

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ctcatacagc cactcctgca ctgtccgcct tcttctccta ctcccctgcc tgccaccaac 120

tgccaagttt ccaagtgcatt ataccctccc tgcctcacia acaactccac cctttactaa 180

ataccatcat gttc 194

<210> 54350

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-E9

<400> 54350

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cttcccttgc gtgtttaccg acgccaccgg ccnccgggat attttcaccc aactccntcc 120

ctctctcccg gccagatag atctttcccc cgtcctccct cgccttcgcc ttgcgcggca 180

ggagatttcc accaccaccg ccgaaccgcc ccgacctcc tcccctctcg cgctatggcc 240

cagactgttg tgctcaaagt tggcatgtcc tgggagggct ggggtggagc cttccaagcg 300

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accgtgaaag gcaatgtgac acctga 386

<210> 54351

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-G11

<400> 54351

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attccacggg agctgatatc tatottcaac cagaaagatc ttgagcttgt gattagtggg 120
cttccagata ttgacttgga cgatttgaaa acaaatacag aatattcttg ctacagcata 180
gcctctccag tcgtccagtg gttctgggaa atcgttcagg gggtcagcaa ggaagacaaa 240
gctcgggttc tccagttcgt cactggcact tcaaaggtac cgttggaagg ttttagtgaa 300
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<210> 54352

<211> 182

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-051-Q1-K1-G12

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ccccccaca tatatacttc aactaaatta aaacaaatac ccaatatattt acctccatca 180
ta 182

<210> 54353

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-051-Q1-K1-H8

<400> 54353

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gcatttgagg ggcattggcag gtgtgtgaat caatgtccgg aaacggaagc cagttgtttc 120
cagggttttc tcgagaaatc ttcacctgcc aagcctgaag acctgaactc ggatgcactg 180
ggttttgatt tgaaatttaa tgtatcctat gttgcctacc attgtttgac aaccatttat 240
ccgaactttt gatctaaaag acagcgggaa tataattgtg cgcgagttaa gcttgaggtc 300

ggtcggttttg acgcttcctc tatgtactat ctt 333

<210> 54354
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B10

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aggggaatgct ccgaacgggg ctacaagcat tttggcaaat gaacaccttt taacgaccct 180
ttgggttaaaa taaaggtcat aacacaatag ctgggtccagg cttttaacct aatccacaaa 240
tttgggtggaa aaaaaatagg cctgacaacc ggggttaaccg aaaagcccaa gaaccctttg 300
caaaaccct cagaaaaaac aattaaa 327

<210> 54355
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B2

<400> 54355

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aactgagcgg tggggcccg cgggccaagt tatectgttc gctaccgtga tgttttaccct 180
agtcagagg gtttatcttc gttegtgtcg tgtttgttgt tgcccatctg tgtttttgat 240
tgcaaggctg ctctgtgtca gttgttagtg ctgtgttcat cctcggtttc agcagaccca 300
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taagttaatc ttaaggaaaa 380

<210> 54356
<211> 211
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B4

<400> 54356

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taccattatt aattttttcc agtgcgagat tttttacatt attttttata tccaataatc 120
ttttcaaaac ttcccaactcc tctataacct taataacacc acctatcata tcttttcata 180
tttaatgccca ttgactacta ttctattaga c 211

<210> 54357

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B6

<400> 54357

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tcgcgcgagg tctccaacgg ctgcgagctc aggccctccg tcatcgccag accagactga 180
cgtcaaggtc tgctgacctg tcatgcgcac cttctacacc ctctgatgg tagatcctga 240
tgcatttagc cccagctatc ccaaccttaa atagtacctg cactgacatg tcaatgatat 300
tcctcagact actgtagtat ctaatgggac 330

<210> 54358

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-B9

<400> 54358

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tttccatact cgcggaagcc accaccaccg gcaggggaag cggaagggga gcacctcggg 180
ccaggcaaga tgggtgctgc gcagctgggc gggagcatct accgggccct ggcgagatg 240
agcaacgcca cggatgatga tgagaagggtg ctcaacgact gcctcaacga gatctcgcgc 300

gctctcctac aggccgatgt ccagttcaag atggtccgag acatgcaggc caacatcaag 360
 cgcacgtca accctcaggc gctagccaga agcaccaaca agcgccgtat catgcagcaa 420
 gcttgcttca cggaactctg caacatgtta aatcccgg 458

<210> 54359
 <211> 254
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-C3
 <400> 54359

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 gttttttttt ttccaacgga ggccgtcgcg cgctgccttt agtttcggac ccatccatcc 120
 atacatagcc aacatcacct atagcaggcg gagggacgga ggaccgtccg tctcgttcac 180
 tccgcgccgc gcgtggcccg atccagcccg gccctcgcat ggtcgccgct ggcacgtaca 240
 gcgacgacac cagc 254

<210> 54360
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-D6
 <400> 54360

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 tccgcaggcg gaggtggcca tgctggtgac ggcagcgctg atggcttctt ccgcttcagc 180
 ggcgatcacc tgctgcagg tgggtgcatc gctcgcgccg tgcataccgt acacgactgt 240
 gaggaccagc gcgctccccg cgtaatgctg catcgccac aagagcctca acagctcggt 300
 gcggaccaga gcagaccgac aggcggagtg ccgttgctc aacagcctta tcaacagctt 360
 caaacagcca caacatggtc 380

<210> 54361
 <211> 322

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-E12
 <400> 54361
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 ttcccaaaac aaccgttttg accaactcgt gctgggatga gtttgtgagc ctgccagcta 120
 ttgttccacg gggccctggt gcactactag gtttgggtgc tgggacatca gcacatctga 180
 tgctaaagat ttggccttgg ttacaactta ttggctggga gatcgaccct atgataattg 240
 aattgtcaag ggattatattt ggtatgtctg atttagagaa agccacagaa tcaggtgggt 300
 cacttttggg gcgcattggg ga 322

<210> 54362
 <211> 63
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-E2
 <400> 54362
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 ggg 63

<210> 54363
 <211> 241
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-F12
 <400> 54363
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 gcaaactcgt ccaaagtttc aggacgggat tagggcactt gcagacagtc cgattatcgg 180
 agagatacat atcttgggga tgattatggg gaccgaattc acaaactaca tgttaccgac 240
 t 241

<210> 54364
 <211> 543
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-052-Q1-K1-F5

<400> 54364

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ctctcggggg ntttatgata atactccact actccggcgt ccgcactcca tcgctgggtc    180
agtcctttct ctgctcgtct ttcctcttta ctggcttcgt atgtctnnnt ctcatagaacc    240
ctactctgct ccccatcatt atgcctacgc nccccttctt ctteccactt tcctcctcct    300
tcctctttta ccccttccat ttctagtaag catctactcg tgcctccgtc tttctcttcc    360
gatgtcagtt cttctgcttn ntcgtcgtcg ccgttttcaa gtcgttcgcc taaatacctt    420
ctttagcttg catgccactt ncctactgct gctagcaaaa gacctttatt actagtgtca    480
attaagttac gaaaaaaata ataaatataa aaaaggtcgg cccgtctaga ggatccaagc    540
tta                                                                    543
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<210> 54365
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G3

<400> 54365

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ggccaaccaa ctacaactag gaaatagggt gccctgggca aactattcaa ctaaactaat    180
cgcgactcac cactagtcgg ctagtgtgtg ctcagggtgac tagacttgat ttatgatttg    240
gaaacactag tagctgctta tcttttattt acgctagtta tcctcaaaag accaccaaat    300
gttattatac acattcgtag caatcgata aggttatatt atgctacagt gaacgatgtg    360
ccaaaaaatg gataagcgtg ttcatttaaa ttcttagaga gccattttat gtccttgctt    420
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gatacaacaa catttttgatt ta

442

<210> 54366
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-G4

<400> 54366

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cctcccgcaa gccaacaag cgcttcgaga tcaagaagtg gaacgccgtc gcgctctggg 180
catgggatat cgtcgtcgac aactgcgcca tctgccgcaa ccacatcatg gatctatgca 240
tcgagtgcc a ggcgaaccaa gctagcgcga ccagcgagga gtgcactgtc gcttgggggtg 300
tctgtaatca tgcttttcac ttccactgca tcagcaggtg gcttaagact cgccaagtgt 360
gccattaga taacagttag tgggagttcc agaaatatgg ccactagtgc ctgggcaccg 420
tcatgtgatc gtgggggcttt gctgccactc aagtgtttt 459

<210> 54367
<211> 463
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-052-Q1-K1-G9

<400> 54367

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tccccctttt cggcgcgcca gctcgcccga gatgggaaac tcgagatcgg gtgtcgtgt 120
gaatgacgag tgcattgtca agttcggcga gctgcagtcg aagaggctgc accgcttct 180
aactttcaag atggacgaca agttcaagga gatcgttgtg gaccaggctc gngatcgccg 240
taccagctac tatgacttca caaacaagcc tcccgagaat gactgccgat acccatcta 300
tgatttcgac tttgtcactg cagaagatgt ccagaagagc cagatcttct atatcccatg 360
gtccccatcc ttcggcaaag tgaagagcaa gatgctttat gcaagcttaa accaaaaatt 420
caagaatggg ctcaatggca ttcaagtgga actgcaagct act 463

<210> 54368
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H2

<400> 54368

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atgatgaccg aagagagcag ctttaagaaaa gtggcctggg aaaggtcatt atgtttttgt 120
ccaaatctga tgaggagacc actgcaaata ggaaattggc taaggagctt gttgataaat 180
ggagtcgacc aatattcaac aagagcacga gatttgaaga catgaggaga tatgatgatg 240
aaaaa 245

<210> 54369
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H3

<400> 54369

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aaataaaaaa aaaaaaagag gggcggttga ctaatcctaa attacatcgc gtgcattcta 120
aaagatccct cttctctaac gccacctaac ttcaataaa 159

<210> 54370
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-052-Q1-K1-H4

<400> 54370

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cctgggtggc aaagtgacat ttcttctgtt cgaagatacg atgaacttcc ccaagctgcc 180
cgcctttatg tggagaggat agaagaactt gttggtgttc ccgtgcacta cattggtgtt 240

ggacctggca gagatgctct catatacaag taaaagcaac tttatttggt ccttggttgg 300
 gcggaaacca ggctgggact cgggagcatt tgcattttct tggcgtggta acttttgata 360
 cggtgaagtc actgactcgt ggagtgatgt t 391

<210> 54371
 <211> 82
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-052-Q1-K1-H9
 <400> 54371

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 ttatgctctg actcaaactc aa 82

<210> 54372
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-A10
 <400> 54372

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 cgtggtggct acggttatga ttatggctat gccccagag gcgggtacta tgaagagcaa 180
 gacgaatact atgatgagcc cgaggaatat gtcctcccc ctggccgcgg acgtggcaga 240
 gggagaaggg gcggcatgcc ttggcgtggg cgtggaggcc gcgggccacc gcgcggtggc 300
 cgaggagct actactaggc gcgagaaatg cgacgtgccg aatgcgtgtg cttattagtt 360
 atc 363

<210> 54373
 <211> 276
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-053-Q1-K1-A2
 <400> 54373

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 gtacctatct acaatttggg cgacgtgccg gcagtagcta gcgatgctga tgtgcgtaca 180
 tgaacaaggt cgaggagcca gacacgatgt gcctatgcat ggagctcagc tcctagctta 240
 tgaactatgg tcagatagag catgcgaga acgcct 276

<210> 54374
 <211> 197
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-053-Q1-K1-A9

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 tgaaccaa at cgggtctgtg accgagagta tcgaagctgt caggatgtcc aagcgctccg 180
 gatggggagt gatggcg 197

<210> 54375
 <211> 178
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B12

<400> 54375
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 caccacaac tcgggcaagg ggttcagctc cagcgtgatc acacgaacaa cgtctcgaat 120
 accatcgtcc atccccgcac ttgaaagaac gagcacatca cagattcatg gtatctga 178

<210> 54376
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B4

<400> 54376

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aaaataaaaa aaaaaaaaca aaaaaaacag caaaaagaaa attttctaga aaagagatag 120

ggtgcgtcat ctggcacaga ctgcagaaaa tccaaggaat ccgtatccta cacgtacttg 180

catagcgtcc acaagctgac ctctgaatcg gacgtgctcg atgatgagtg cacgctgacc 240

atggagacgc gccacatcga gaacaatgac gtg 273

<210> 54377

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-B5

<400> 54377

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acatgacttc acaggaacat gccgctcctt gagccgtgat aggaatttca ctgaatcggg 180

cccattctct agtatgagaa tgagacctgg tcattcttct ccaggctttc cactccaagc 240

atcacctcag ctatgcactg cagcagttag ggaagcaaaa aaatgggttg aagagaaaag 300

gcagggactg ggcgtaaaac ctgaagacaa tggatcatgc aca 343

<210> 54378

<211> 468

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-053-Q1-K1-C12

<400> 54378

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tcaaagcctt tagaatcatt accatatgat tctcctgggc agacctttgt ggcttttgaa 240

aatccagaaa gtgtcattgc caccggcaag ttctcaaata tcttgaaatt ctttgnntaaa 300

gagggatgatc catcncacgg gtgaagctga agatgatggg gtcgaggatg agtaccagct 360
tgaagatctt gaaatcgttt ctgctgatta tatgttgaag gtgggagtat ctaactttcg 420
aaatgcctgg gaaaacatgg attcagagac tgagcgagtt gacgagta 468

<210> 54379
<211> 237
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-053-Q1-K1-C4
<400> 54379

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aatattaaaa aacaggaaaa aaaaaaaaaa ataaggaaga ttacaacgg gagaataggc 120
aaaccacaaa acggggcgac gctctagatg agtcaggcat acgtccgcac tcatgccccca 180
tcataacaag cttatgatcg agatcaatat cagtgccatg cccgttcaga tccaacc 237

<210> 54380
<211> 458
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-053-Q1-K1-C9
<400> 54380

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aagggttcagg aacggaaagc cctcattggg gtcaggaaca ctgcggacac cgcgtatcta 120
cagcatcgag aagagtcttg gagagtacag ggacaagatc ccggcagagg ttgcatctga 180
gatcgaggca gccatcgctg acctccgcca ggagatggcc tcggatgaca tcgagaagat 240
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ggaggcagag tatgaagagg ttaaaaagtg aggctgcggg aagttgaagc gaaattgtag 420
tgacctgttt agaagtagct actctttttt gggaacac 458

<210> 54381
<211> 341

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 54381

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 gccgtagcgg cgggtgcttct cctaccggtg gcagaggccg tgtggctcga gctcccgccg 180
 tcggggacca agtgcgtctc cgaggagatc cagcccaacg tcgtagtgct cgccgactac 240
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 ccctatggca atactgggca tcataatgga aatgcttcaa c 341

<210> 54382
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-E11

 <400> 54382

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 gtttttaaga ttgcaacagc tagctagtgg cgcgggtgac tttctactgg gaaaagataa 120
 gatacaaaag gttttactct caaggctaac tgaaacagtt atcatgtggc tctccaatga 180
 gcaagagttc tgggatatct ttgacgaccg atctgtccaa ctccagcctt cggggctgca 240
 gcagcttatt cttgatatgc acttcattgt cgagattgct gtgtgtggaa ggtttccata 300
 tagaccagtt cagcaacttg ggtccacaat cataaccaga gcagttgcag ctttctcagc 360
 aaggggtgtt 370

<210> 54383
 <211> 469
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-053-Q1-K1-E2

 <400> 54383

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gggatcaacc ccaaggccaa gccctactac ctctttgatg gctacgccc ctttctgtec 180
gggcttgctt gtggtctcgc tgggcttgca gctggcatgg ccatcggcac tgtcgggtgat 240
gctggagtca gggcaaatgc gcaacagcca aagcttttcg ttggcatgat cctcatcctc 300
atcttcgcag aagcgcttgc tctctatggt ctaattgttg gaattatcct ttcgtctcgc 360
gctggatcaat cccggccgga ttaagtgcac caccattctg tgattaccga accgttaatt 420
atgctattct gagaggattg gaactctatt ccctggccta gttaatcct 469

<210> 54384

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-E6

<400> 54384

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aaaaaaaaaa aaaaaaaaaa aaaaccgaaa ctttttaaac cttacatgcc aaaacccaaa 120
aaaaaatcca aattaaataa caccgaattc cctcacctta aatttccaac gtaaaaacct 180
caaaaaaccc tcccataacc caattaaata cccttcacaca acaacaacct ttttccaaaa 240
aacctctaac acaccaccca aaaacc 266

<210> 54385

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F2

<400> 54385

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tatacctcgc acacgacgat gtgatgcaa ctctaagctg aacatcactt acaacaaatc 180
gtaacggaac ctgcacacca tcaagccttt tctctacaag cctgacacct tccgtctgtc 240

tagacattaa acaacacatc ttgctataac acatacgata ttacatacag gaagaaaata 300
 tgtattcctg ccatgactcc atatgaccat atataagtaa aactgtaca atgtaaatta 360
 aa 362

<210> 54386
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F6

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 ctagaagtat cctggtagct ggaagtcatg ctagcaattt ggggtaccag tgtgggtggat 180
 ggtcaatcca atggatgggg gacagtggta atatcacaac tgggacaaca attcttgatg 240
 cgataaagtc taccgttgct gactcgacgt ctgttgtcta ctctgagaac cccgatgaca 300
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 c 361

<210> 54387
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-F9

<400> 54387

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 tggatggtgg catgcggagc ccggaatagtc tgtctggtgt tgctgccggc ttgaacggag 120
 atcatcgtct cttggatccg cttacgcttg cgcgcgccct cacctagaag gccgcacggc 180
 aatggaacga ctttgctacc aagggccatg ttgattccca atggctctca tgttcttgcc 240
 aatattttgg tctctt 256

<210> 54388
 <211> 387
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-053-Q1-K1-H8

<400> 54388

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aattccccggg tcgacggacg cgtccggttt tgctgctctc cgaccccgag ctctatttgc   60
cgcagcatca ggcgcggccc cctcttggtg tgaccgagat ggcgctgccg aatcacggga   120
ccgttgatta cccagcttc aagctcgtca tcgtcggcga tggtggaact ggtaaaacta   180
catttgtaa gaggcattct actggagagt ttgagaagaa atatgaacca accattggtg   240
tggaagttca tccgttggat ttcaccacta actgtggtaa gatcaggttc tactgctggg   300
ataccgcacg gcaagagaag tttggtggcc ttaaggatgg atactatatc catggccagt   360
gtgccatcat catgtttgat gtaacct                                     387

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<210> 54389

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A1

<400> 54389

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attccccggg cgacccactc gtccgaaaaa aaaaaaaaaa aaaaaaaaaa aaaatttaaa   60
ttaaaaaaaaa aaaaaaaaaa aaaaaaagaa aggtttaatt tt                                     102

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<210> 54390

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A10

<400> 54390

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gaattccccg gtcgaccac tcgtccgaaa aaaaaaaaaa aaaaaaaaaa aaaaaatttt   60
aaataaaaaa aaaaaaaaaa aaaaaaaag aacgggtttt ataatttaaat aaaaaaaaaa   120
caaacacata aaaaattcgg gctccccctt tatataatcc aaacttactt ccccttactt   180
gcaacttctt tcctttttta tagttttacc aaaattaaat tcacccccct tctttttcca   240
acccttttac tggaaaaccc ctattcttcc ccatcttatt ctctttcaaa caaatcccc   300

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<210> 54391
<211> 390
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-054-Q1-K1-A11

<400> 54391

gaattcccggt ttcgacccac tcgtccgcca aaatccaaat caccacatcc ccccatTTat 60
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accatatcgt tctctctgct ctcttcccc gctaaaccca ccatcacctc caccaccata 180
tctaccctt cccaagacc ctcccgctcc acccatgtcc atttctctta ttacgcccgc 240
tgctctctcc tccgcttccg cgcgtcgtct caatatccta cgacttcgtc caccctcgg 300
tctctgcctt cttattactt ccacaacctc atttactacc ccaactactt tcgcattttt 360
tacaccactc tgttcgtact atatcattca 390

<210> 54392
<211> 71
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-A12

<400> 54392

taaaggatcc aagcttactt acgcttgcac gcaacgtcat agcttttcaa tagggccacc 60
taaattcaat t 71

<210> 54393
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D2

<400> 54393

tccggaattc ccgggtcgac ccactcgtcc taaaaaaaa aaaaaaaaa aaaaaaaaa 60
ataaaaataaa aaaaaaaaa aaaaaaaaa aaagaaagaa taaaaaaaa aaaaataaaa 120

tacacacaaa tacaaaaaac ttaaaaacca aaaaaaccaa caatactact tttcaattca 180
 ttgaccctta ttcttaatct cttcataccc tatecttcac ttttccc 227

<210> 54394
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D5

<400> 54394

aattccccggg tgcaccact cgtccgaaaa aaaaaaaaca ataaaaaaaa aattaataaa 60
 aaaaaaaaaa aaaaaaaaaat aaaaggagca attttaacaa aaaaaacaaa aaacaaacaa 120
 ctaaaacaca aacaataaaa aaaactcaaa caaaaactta cacaaaaaaa aaaaaaata 180
 cttaccacc aatcaaccac cccaattttc ttcctaactt attcttctca cactacatca 240
 ttttttatat ctcccccta t 261

<210> 54395
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-D6

<400> 54395

tacaatttat attcaatatt aaaaacatct tagcatgatg ttctactggt tagacagctg 60
 gaccagtggt ctttcgtcct tcttccatca ggacatgggt tcgaacccca cgcgtgcgtc 120
 tagcctgtgc cggtcgccgt ttggccatct atatagacgt gcagcagatt aatttgaaat 180
 agctgagggg ttattttaaa aagatgacgc atgatgaccg ttgaaattgg tgctttaagt 240
 atagtataga attcttggaa ggttttgcta ttctacttat ttgtgatata taaacttgcc 300
 cattttttct tggatatctac tatgaactta actgatgcat ttgataatat aatgatttct 360
 tttgagcctg ttcattagat gtaaattaac acagtatcca tttacaacca attcttttgc 420
 atttttacia ttga 434

<210> 54396
 <211> 199

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-E4
 <400> 54396
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 agaaagaaat acacaaacat acaaaaaaaaaa aaaaacaaat ataaaaaaac ctaaattggcg 120
 ctccgtttta caggatccaa cattacgtcc ccttgcatat cacgtgttag ccctcatctt 180
 aatccccctta aatcaaatac 199

<210> 54397
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-F1
 <400> 54397
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 aagcggaaga cgcggaacaa gatcatcgta tggacgctgg ccctggctgc agtggcgatt 120
 ctggtgggag gcacgattgc gctggtgctc acggcgggga cgtggaaggc caagataaag 180
 aagtcgcagg agaagatctg taacaagggg tgggagtgct cggggagcaa gtactgctgc 240
 aacgacacca tcaccgactt cttcaagggtg taccagttcg agaactctt cgccaagcgc 300
 aacacccccg tcgcgcacgc cgtcgggttc tgggactacc aggccttca 349

<210> 54398
 <211> 153
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-054-Q1-K1-F10
 <400> 54398
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 atatataaca aaaaaaaaaa ataataaaat agaaaagttt aaatattaat ttacactcc 120
 cccccctct atttttttcc aacacttctt aca 153

<210> 54399
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-F6

<400> 54399

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ggcactggat gagcatctca aagctcatgg cccctacatc aacggggaga acgtatcagg 60
agctgatctt agcctggggc caaagctctt ccacctccag gtcgcactgg agcatttcaa 120
aggctggaag atcccagaaa acctaaccaa cgtccacgcc tacaccaagg ctcttttcag 180
ccgtgaatct tttgtcaaga ctaagccatc cgaggagcac gtgattgcgg gatgggcgcc 240
caaggtgaac gcgtaagcac atcgtgattt ggtgctaact ggtggactcc atccatttat 300
ctgatcagtc gttgtcagtg gtgtgtgtag gtgtcacatc tgtagcctag acacatgatt 360
cagttggaat aaatgcagtg tcgtgtaaaa aaaaaaata aactaa 406
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<210> 54400
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G4

<400> 54400

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cggatgatgaa gagcagcaca atcgtcgcgc ttctgttggc tgttgccatt ctgtcctcgg 60
tgtctccatg ctacgaagcc ggcggctgca tcgggaaacc caagaagtca ccgccgccgc 120
cgagaaggcc atacctctcg tcctattccg aggaccacca gaactgccgc ttgatctgta 180
gctcgaaggg tttcaaggac ggtggctggt gtgacgaaag cgtcgagcac aaagtgtgct 240
gctgctccca ttagaaatat aatatcgtat gttatgttga tgcatatata tgcacatcc 300
atctacctgt gtggtgcaaa aattctgaat aaaatctacc tgtgtggtgc aaaa 354
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<210> 54401
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-054-Q1-K1-G5

<400> 54401

cccacgcgtc cggacgcctg cggacgtcgc cgagaacttg acgccaagg caccgcgcg 60
ggacgtgac tcgtgcctcg ccgcgcttgt cgaggcactg gagaaggcta aggaggacgc 120
gctggcgaag aaggccaagg ggaaggagga ggccggctcc gcctatgagc tcgactacga 180
ggagtagctg gtggctgctg ttgacttctt gttagttgct agtgctacat atgtatggag 240
cccctgatct aggtgctggt ctcatctcat gagcgaagaa taatgctaac tagactacga 300
tttgattatt actttatggt gtcagatcaa aaactaaaag aacct 345

<210> 54402
<211> 479
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-054-Q1-K1-H12
<400> 54402

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catctcttct gcggcgaaga acccccaggg agccagcgga tcaactcgcta aactttgttg 120
agggtgatg gcagtttctt tcgcaaact caactccgag gcagggctta aaaagcttga 180
tgagtacctt gtcactcgca tctacattac tggctaccaa gcttgcaagg atgacttggc 240
tgtctacact tctgtttacg ctgctccctc gtccaagtat atcaacgtag ctaggtggtt 300
taaccacatt gatgccctcg tgaggctgat cgggaattact gcagagggcc aagggtgtaa 360
cgttggatcc tcagcagttt cttcagcccc aacttcagat gttgctgaag cacatgcccc 420
agttgctgac gaagacgacg acgatgatgt tgaccttttt ggtgaggata ccgaagatg 479

<210> 54403
<211> 325
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-055-Q1-K1-A1
<400> 54403

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ttctgcttcc ccaccgagtc tctcaggcc cgtctctctc tctctgtccc ctcccttcct 120
cgctccgat gccgccgact cctccgctcc tcgagccgcg cgactacctc ggccgccggc 180

ccacctagtc gtgctgctcg tctgtgctgct cctactgccg ctagggcaca ttgccccacc 240
 tcgcgctgcy gatcggtgctt ccggtgtccg acgactcccc cggtcgcggc gcggacactg 300
 aacacgcccc cgccccacgtc tactc 325

<210> 54404
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-A6
 <400> 54404

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 aataaaaaaaaa aaaaaaaaa aaaacaaag aacgcataat ttcaaaaact aacataacaa 120
 acattcaaaa aaaatatata atctacgtgc ctctctttac ttcccttcct tacttactcc 180
 ttcttccaca ttaatactcc tactatcctt ccacttactt tctttccact gcctctcctt 240
 ttaccccggt tttccctgta acaaccttgc ctttaccac ctaactttcc ttcct 295

<210> 54405
 <211> 222
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-A8
 <400> 54405

attcccggt ctaccactc ttctctgac tctttgtctt actctttgac ttactcttgt 60
 gaaaaaaaa aaaaaaaaa agagaagaat tatataaaaa aaaaaataaa aaaaaaaaaat 120
 aaaaaaata aataaataaa aaaatatcaa ttaataatat atccaaaaaa ctaaaatctc 180
 atacattgct cacatttttt ataactgtaa ttcttataaa aa 222

<210> 54406
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-055-Q1-K1-B1
 <400> 54406

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 agaaagtgat tcctgcacaa gcgatatggg gttgtgtcca ggaagtagca ctgatctgtt 120
 tgacattgca cgatctcctt ttgttgattt tcaccatcaa gaaagatgca ggcaagtgaa 180
 gatggcaaag gggccatgca gccttcttga ttttgttcta atctcaaagg cagttgataa 240
 ctcttccaag cctactccag acttcgaact actttctcat cacacatgtc attgcaatgc 300
 tctaagccag aaccctatat ggtggcttat ggaacggcct cggacaatta gtcattgattt 360
 ctcaaagtct tattgtgagg ctaacctgca attggtcatt cacaattcaa aagctcataa 420
 gattttttgtg agagtgggtca cttttgat 448

<210> 54407

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-B3

<400> 54407

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 tcgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaggaaggaa taaaaaaata aactacgctt 120
 catcactgag atgatgcggg atgctttgcg ccagaatgct actgacactg caaccatttt 180
 atctaccgaa gtcaccatg acaacatgca ctcaacacac cagttcacag gttgaatcca 240
 tagtacgcat cagctttatg actccctaga ttactagaa tttaaaccat taaatgatga 300
 gagaattggc attatacaat aaacttttgg aaaacgtggt gacactggag tcgtattatt 360
 aatcaacgg 369

<210> 54408

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-C11

<400> 54408

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 gaagcttgag gctgccaaca aggctgtctc gaagattggg cagcacatgt caggtgggtg 120

ctctggcgac tcacagtcgg gatctggacc tcaggggtggc ggtgaccagg cgccggagggc 180
agagtatgaa gaggttaaaa agtgaggctg cgggaagttg aggcgaaatt gtagtgacct 240
gtttagaagt agctactctt ttttgggaac acagatagtc agatgagatg taaaacctgt 300
gttgtaataa tcgttggatt tgccccact tagtttctt ctgcggcgat ggaggtaaca 360
cgacattgtc attgcttttg ttgcaaaa 388

<210> 54409
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D11

<400> 54409

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agcttaaaaaa cccctccctt caaacctta atttttttat tgtgacct aacttaaatt 120
cacacgcccg actttttaca acgtccgtga ctaaaaaaac ccatttttta accaacttat 180
atctttttaa aaaaataccc ctta 205

<210> 54410
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-D4

<400> 54410

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aggatgccaa gttcaagctc tgcaagggtga ggggctggca gtttggccag aagggcatcc 120
cctacctgaa cacctagac tgccgcacca tccgctaccc cgacccgctc atcaaggcca 180
acgacaccat caagatcgat ctggagacca acaagatcat ggacttcac aagtttgacg 240
tcggcaacgt ggtcatggtg accggccgga ggaacaccgg gcgtgtaggt gtgatcaaga 300
acagggagaa gcacaagggc ggcttcgata ccattcacgt cgaggactcc atgggccacc 360
aagttcgac c 371

<210> 54411
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-D5

 <400> 54411

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 cacgtacgta gtttttgagc tcggaaaagc catctcatcg tttgtgatcc cagacctgt 120
 tgcttaacat gtggcatctc cgctgcaacc gagtacctgg actgaaatgt tcatgttatc 180
 gtcaactaac aactgacctg gtttacttca ggccctactg tataattaca ggaattgggt 240
 ggtccatctt tgctgatttc cacagcattc ttatggtaaa attattactg ggagttt 297

<210> 54412
 <211> 113
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-F11

 <400> 54412

 attggtgggtg ccctctttta gatttcttat gagttatagt tcaataataa agtttgttgt 60
 gggatgtttg tggcttccca gaaataagaa agtacatttc tagattctta aaa 113

<210> 54413
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-055-Q1-K1-F8

 <400> 54413

 atcttctcca gaagcaccat aagtcttgtc ttgggcatta caccagggct agccggtctg 60
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 ttggctcagg gatttgtttg gcttccaaat ggtttgttgg tcttaaaata gtcagaatca 180
 catgacatct gtgctataga tatggacctc agtgggtttc tccacattag gaaagctgga 240
 agagccggtt tgaactcaat ttttttgcta acaagtgttg tatggtgaaa cagagttttg 300
 tgtgtatgta ccaacaacta aaatgtaaac acgacattat catagttgag tccaggaata 360

ataatctcta tatctaattg caaaa

385

<210> 54414
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-F9

<400> 54414

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tccaaagcac actatccttg aattacagag ctcaaaccac ctgaacttgt tattgtggac 180
ttttttcatc tcatcgctgg ttctccctcc tgcgtgcgta ggggtcctg tcattgtacc 240
taggcctgtc tgcagccctc tgtggcacgg gctcgacctc tctctgctc tcaagaggcc 300
tctgaacaat ctaccgttg acaagcagtt cagctccgta gtccttgtac tcaaggtcaa 360
catacgaatc cggtagcaca aagagaacac caaggagccc ctcgagcttg ttagatgtct 420
cctcatcgat ctc 433

<210> 54415
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-G6

<400> 54415

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cacgacgaga tagcagagta ctatctacaa ggggggggatg agatcacaca accgacaccg 120
cgacatggta tagaaacctt tcttgacca aggaaccag atccgaccaa aatgacgacga 180
cgacacgaca gcaccgaaca aatctcacta ctactagtac tactggatag cactccaata 240
aatagatcta ggcggcagct gcggcagcgg gggaagtact gctaggtagc ctgcaagcac 300
gaagcccat cggc 314

<210> 54416
<211> 169

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H5

<400> 54416

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 aaaaaacaaa ccattaaact actatgttta gttgttcaat ttaactttat gacaaacccc 120
 ccaatcaata cttacacatt cctttaaaac aatcccttcc tacaatata 169

<210> 54417
 <211> 74
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H6

<400> 54417

ttctaaagga cccaagctta cttacccatc cttgcaacgt aatagctctt atatagggtc 60
 acctaaatta aatt 74

<210> 54418
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-055-Q1-K1-H9

<400> 54418

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 aggggtcccct tccttccaac tcattactcc tcttttattt caaccaaatt caattcaatt 120
 gcccgcggtt tacaaccttc ttacctggaa aacccctgcc ttteccaaat taattegctt 180
 tcaacaaaat ccccttttcg ccacttgctt tattacaaa aaggccccac ccatccgcct 240
 ttccaaccat ttccccaccc taattgcaa ttggaacccc ctttttaccg cccatttaac 300
 cccgcgggtt ttgttggtta cccccagggt aacggttcaa tttgcaagcc ctttacggcc 360
 cgttcttt 368

<210> 54419
 <211> 400

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-A8

 <400> 54419

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 tctcgagtcg gtacttccgc caaagcggtc ggttaagctg acagacatgg agatagatga 120
 atgcgaggag acaacccatgc atgatgtgaa caacatcgag gaagagatgc gcaggaagca 180
 ggctcatgct gctcaggagg cgtacgagga ggacgacgag atgcctggcg gagcccaaag 240
 agtgcagtgc gctcaacagt aagcagacta ccaaatggg attcaaggca ctttggttgc 300
 tcttcaatta tgcgagtgcg cctgtggact gtatggttct atggttttgc tgcgctgag 360
 ctacaaagta ggaagctgat gcgcccctgg ctctgcaagc 400

<210> 54420
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-B9

 <400> 54420

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 ccccggtgtc gctgttccag aagcccatcg tgaaggtgaa gctcgacgac ctgatggccg 180
 ccacgcagga cttcagcagc agccacatcg tggctgcggg gagctcgcg gcggggacgg 240
 cctaccgcgc cgtgctacgg gacgggtccg cgctgacggc caagcgctg cactcgtgcc 300
 cgctctcgga gaaggcgttc agggcggaga tgtgtcggat cgggcagctg cggcatccca 360
 acatcgtgcc gctgctgggc ttctgcgtcg tggaggacga gaggctgctg gtgtataagc 420
 atatggag 428

<210> 54421
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-C11

<400> 54421

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tttcaaaaaa aaaaaaaaaa aaaaaagaaa gatataaaaa aaaaaaaaaa caaaacaaaa 120
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggcccc 180
ccttttaaaa aaaccaaact tacctacccc tacattcaaa cttaaacct tttaaaaagt 240
gcacccaaaa tcaaatcaac tgcccttctt ttaaaaacct cctaactgga aaaacctctc 300
cttacccaaa ctaaatacct ttaaataaaa tcccctt 337

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<210> 54422
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C12

<400> 54422

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acctctccca aatctgtttt cactgcttt ggcgtgtaga acttgagag tgctcctcct 120
cctatgaaga aggactacaa gctggctaatt cttctctgct gggaggagga agcggatgcc 180
atggaggaga aggcgggagt gcttgatgag taagacgggc ttctggggtc gatttgcttc 240
tgagttgttt attttatatc gtcgcaattt cgtggttgct gtttgggtat tct 293

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<210> 54423
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-C2

<400> 54423

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aattcccggc tggacgcacg catgcggccg gatgcactgt aaagaggtct atactttact 60
atgcctgtcc aggttgctct agctttggac gcatgtaaac agcggggggt cttgctggcg 120
ctgcctatga tgatggaaat tggcttagag agaggattca gaactgcatt gagtgacttt 180
gtacttatgc agctccagtt agcatctgtg ttcttcacat tctctcttgg gacaaaaact 240
cactactacg gaaccacact gctacatgta ggagctgaat at 282

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<210> 54424
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-C4

 <400> 54424

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aattcccgnn tcgacggacg cgtgcgctgg gatgtccaag gatggccaga cccgttagca   60
tgctctcctt gctttcacac ttgggggtgag gcagatgatt tgctgctgca acaagatgga  120
tgctactaca cccaagtatt caaaggcccg ttatgatgag attgtgaagg aagtctcttc  180
ctacctgaag aaggttggat acaaccctga taagatccac ttcgttccaa tctctggttt  240
tgaaggtgac aacatgattg agaggtccac caaccttgac tgggtacaagg gcccaaccct  300
acttgaggct ctggacttga tcaatgagcc aaagaggcct tcagacaagc ccctgcgtct  360
cccccttcag gatgtgtaca agat                                           384
  
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<210> 54425
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-C9

 <400> 54425

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taccggactg gaattcccga cccagacca cgcgtccgat ttgctcttaa cgaggcacag   60
aaatcccttc tgcgggatca catatcccta gagacttgag taaggctcgc actgatatcc  120
atatattctg tacttaccac cacatcgcac tattgttttg cttgctacta gcgcacatgt  180
aaaaaatatt aaataaacia agaagcttgc ctgaactatt tacatacact gtaaatacag  240
tttttagtgg tgtattttta ttacttacac aaaccagtat tcatctcaaa agccatgaac  300
agctattctt atcccttcca ttctattgaa aaatgaagge tttcgtaggg atgaagaaac  360
gcttcaacct tcaatatacc tgaacaacct gccagacaag attccagagg gtactcgtgt  420
gctaagttgt gacccaatgc tggccactgg tgggacaat                               459
  
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<210> 54426

<211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-056-Q1-K1-D1

 <400> 54426

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 cctcgaggcc tttgccggcg aagagcgccc aggcggccac caggatgaag tttgttgctg 120
 cctacctgct tgctgtctc gctgggaact ccagcccctc tgccgaggac ttgacagcca 180
 ttctggagtc agttggctgt gaagttgaca atgaaaagat ggaactcctt ctgtcccaac 240
 tgagcggtaa ggacattacc gagctcattg ctgctggcag ggagaagttt gcttcagtcc 300
 catgtggcgg tggcggtgtg gctgttgctg cagctgcccc tgctgctggc ggcgctcctg 360
 cagctgaggc gaagaaagaa gagaaggtgg aggagaagga agaaagtgat gacgacat 418

<210> 54427
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-D5

 <400> 54427

 tccctggtcg acccaactcat cctcctgcgt cttcctctcg ctaccctct ctctcttctc 60
 ctttcccgc aaacaactcc cagtcgcca cctgnatgaa gtttctgct ccctacctcc 120
 ttgctctcct ctctggaaac tccagcccct cttcccatga cttgacagcc attctcaagt 180
 cagttcgctg tcaagttcac aattaaaca tgcaactcct tctgtcccaa cttatcagta 240
 atcacattac ctaactcatt gcttctggca atgaaaactt tgcttcagtc ccat 294

<210> 54428
 <211> 476
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-056-Q1-K1-D9

 <400> 54428

tcccggatcg accgcacgcg tccgccgcga ccgggagaga gtcagagaga gacgcccgtc 60
tccagatcgt ccggcgngga tgggggctgc ggtctttcca gcgctgctgc tggccgtagc 120
ggcgggtgctt ctccctaccgg tggcagaggc cgtgtggctc gagctcccgc cgtcggggac 180
caagtgcgtc tccgaggaga tccagcccaa cgtcgtagtg ctgcgccgact acgctatcat 240
gtacgagtcc caccacagct cgcacccac cgtcgccgtc aagggtacat caccctatgg 300
caatactgtg catcataatg aaaatgctac aacggggccag tttgcattca ccacttcaga 360
agctggaaac taccttgcac gtttctggat agacagcgtg gagaaaggat caggaacatc 420
tctaaatctt gattggaaga tagggattgc tgcaaaagac tgggatacta ttggta 476

<210> 54429
<211> 384
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-E1
<400> 54429

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gggtggggag ttcggtcttt ggggctcggt aangctggca cattcatttg tgagttcagc 120
gggattatcc ttactcacca gcagtcagag gttgtggcag caaacggcga ttgcttggtg 180
cgtccaagta gggttcctcc aagggtggtg gattgggggtg atatatctga tgtctaccct 240
gattatgtgg cgccagacca tccttctatt cctgagttaa aatttgcaat tgatgtgtca 300
agggcaagga atgtggcatg ctatttcagc cacagttgca gtccaaacgt gtttgtccaa 360
gttgtgcctg ttgatcatta caat 384

<210> 54430
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3079-056-Q1-K1-E9
<400> 54430

ccggggtcga ccgcaggcgt ccgatccctt gccttcattg cccttcagg cactgtttgg 60
aagattgcaa cagctagcta gtggcgctgt tgacgttcta ctgggaaaag ataagataca 120

aaagggtttta ctctcaaggc taactgaaac agttatcatg tggctctcca atgagcaaga 180
gttctgggat atctttgacg accgatctgt ccaactccag ccttcggggc tgcagcagct 240
tattcttgat atgcacttca ttgtcgagat tgctgtgtgt ggaaggggttc catatagacc 300
agttcagcag cttgtgtcca caatcataac cagagcaggt gcagctttct cagcaagggg 360
tgttgatcca caaaagtgtc 380

<210> 54431
<211> 318
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-G3

<400> 54431
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atctgcaaag caacatctgg aacgcngggc tttgatgagg tcgatgaatt catttatcaa 120
ctatgtgatg tcacacgata tggcgcctta acaaggcctg atttggaatc agacttggcg 180
tctgttcatg aaactgtatn tgcaataaag aatgaagctg tcgaagtttg caacaataga 240
ccattcgaag aatcctcaac tctgcagtgt tttcaaagga tgttgaatgg gtctcatgga 300
agtctatgtc attatcag 318

<210> 54432
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-G6

<400> 54432
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acacaatccg ccgtgcgcac gcggtgcgtt ccattaccgc cgtgcagatg gagtggtcgc 120
tctgggtccc agacatcgag cccgagatcg tgccactctg cagagaattg gggattggaa 180
ttgtggctta cagtccaatt ggccgtggat tttttggtgg aagaggagtg atacagcaag 240
tttcttctga atctagtctg caaaggcatc caagatttac aacagaaagc ttggagaaga 300

acaagcagat ttacctgaaa atagaagatt tggcgaagaa gtaccagtgc agcccagctc 360
agctagctct agcctggggtt ctgctcaag gggatgatgt ggttcctata 410

<210> 54433
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-056-Q1-K1-H1

<400> 54433

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cataacatca gccgcgaaca cactgcttg tttctcgaaa tatgtgctga ctacatcact 120
gcactcgact attaccgcct gctctaaact cgacatcgtc cgcgatgacc gaactggtaa 180
aactacactt tgtaacgata atctcactgc atagcttgag acgacacatg ctccaaccat 240
tgatgcggaa catcatccta tggatatcac cactaactgt cctaacatca cgatctacta 300
ctgtcataca cgaacgtcaa gatacgccag atgacctcac gcatggatac tatatc 356

<210> 54434
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-056-Q1-K1-H3

<400> 54434

gaattcccgg gcggacgcac gcgccggaa tatctcgccg ttcccatgga catcgactct 60
cttccccgac atcgaccttg actgcctggg cgctccttc tgcggcgacc ccgccgccgt 120
ctccggcctc atcatcccg ccccgccctc gccggcgccg gcgacggcgc acgatgcgga 180
ggcgggggtcg ccggagtcgg tgacctcccg gacgaaccgg ctcggggagg tggcgctctc 240
ggagatcgag aggtctctga tgcaggagg ggaggcgga ctgggaggng aggtcgatgg 300
gatcagcgtg gaccagttct tcgacgcgt gtacgacggc gaggaggcga aaggtgagcg 360
ggaggcgggt gcaagcgcg atgtggactc cggcaggac gatgtgctgg aagtcgtgac 420
gccagagg 428

<210> 54435
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-A1

 <400> 54435

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 ctttgtgatt ctgaagaaga acccggggtg cggggaggag tgaagacca tatagcatat 120
 tgggtgtttcc gagggccgct cagataggca gcctcgaatt tgcgcggcct tggatatcta 180
 tcttctttct tgctcagcag gagcgccatc ctggccctct ccttcctggg tccgtgtcca 240
 tgtttgattc ttatcttacc ggagctgtgg ctaactgaaa gagctgtctt tg 292

<210> 54436
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-A3

 <400> 54436

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 gcagtcctatc tattaatttg cggcagggtta tctcagagct tgctgctcct acaaaggatg 120
 cagaatTTTT aatttttagaa ngcatgggtgc gatcacttgc ataccaacct caatgcccggt 180
 tttaagtgtg atgctctaaa gcttgctatg gtcaagaatc agcgatttgc agaaaaactc 240
 ttcaatggga gtctata 257

<210> 54437
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B1

 <400> 54437

 acgcgtccgt agccaacaca cacacaaata ctctccattc cattccatct caaaggatag 60
 aataatgggg ggtctctcca ccaagctttt cgtggctctc ctctgctcg tttgttacac 120

cgggacgcaa ggcgggcccgg tgactatggt gtcggcgagg aagtgcgagt ctcagagctt 180
 ccgcttcaag ggaccttgct cgaggacgc caactgcgca aacgtctgcc tgaccgaatg 240
 tttcaccggc ggcgtgtgca agggcctacg ccaccgctgc ttctgcacca aggact 296

<210> 54438
 <211> 238
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-B2

<400> 54438

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 cgtctctctc ttctctctga ctgtctctct cntagccgcg tccacctcgc aacaacaagc 120
 aagcgccacc aaatggcgcc tctaagagac cgcggaactt cttccccggc ggggtccaac 180
 aacctggtgg ggtcgttccg cgagaagctt atccactttg tccccacct ggcccggc 238

<210> 54439
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-B5

<400> 54439

tggaattccc gggtcgacgc acgcgtccgg ggtggcagtc gaggccgagg atctggtggt 60
 ggcggcagca gtgttggtatg ctgcggcggg ggtggttgaa gcggaggagg atctggtggt 120
 ggcggctgca gcggcagtg gactagcggc cgttgccccg tggacgcgct gaagctgggc 180
 gtgtgcgcca acttgctgaa cgggctgac aacacgaccc tggggacgcc gcccatgacg 240
 ccgtgctgca cgctgatcca ggggctggcg gacctggagg cggcggtgtg cctctgcacc 300
 gtctcaggg ccaacgtcct gggcattaac ctcaacctgc ccatcaacct cagcctcttc 360
 gtcaactact gcggcaggcg cgtcccatct ggctttcaga gcttctgata tatatggtgg 420
 tagattatat at 432

<210> 54440
 <211> 314

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B6

 <400> 54440

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 cttcgccggc gaagagcact tcaacggggg cgcccacccc gtggcttggg gctttgtggc 120
 ccgccaaacc catcacccca accctcactc gagctacttg gttaacttcg cgtctttcga 180
 tctgggctga atgcgtcttt cgatctggac ctaactgacc attaccgct cctttctggg 240
 tatattctca ccttacctgg agaaaaccag aggggatttc aagaaggcca ggggcaacaa 300
 ccaaaccaaa cttc 314

<210> 54441
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-058-Q1-K1-B7

 <400> 54441

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 gtgtctctcc aacaagcttt tccgcttcct cctcctgctc gttcgatata cacgaacgca 120
 atgcagaccg ctgactatct tctccgccag gaagtcccaa tctcatagct tccacttcaa 180
 gggaccttac tcgatggacg ccaactgctc aaacgtctgc ctgaccgaat gtttcaccgt 240
 ctgtatatgc aaagccctac gccaccgcta cttctgcacc atggactgct aatactgctt 300
 aatctctcca tccctcagct cgtgtcctgc gtgtgcatag ccgcaccata tcagtaaaac 360
 atgcatgcat gcattaccta 380

<210> 54442
 <211> 198
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-C11

 <400> 54442

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 ctggtgcccg gctccccctca ccaagctnnc tggaaggggg ttccgggaac ggaggggttc 120
 ccctcaaaac gcaatttccg tcttttttaa ggcccccggc ccgaaagtga caaaggggtt 180
 tcaccccggtg ggcacggg 198

<210> 54443
 <211> 162
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-C9
 <400> 54443

gtcgaccgca cgcgtccgca tggaatgga ttctctcaca tccattggga ttgatctttt 60
 tccaanaaaa cgtaggtgat cttaaataaa tgctgcattt cctcttaaaa catctgtagg 120
 tcttgaggt tatctacgtg tcatgggatc tccaacagat tt 162

<210> 54444
 <211> 77
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3079-058-Q1-K1-D10
 <400> 54444

taccggtcag gaattcccgg atcgaccac tcttcttatt gttactagaa attatgtttc 60
 aaaaaatttt tttttca 77

<210> 54445
 <211> 131
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-E10
 <400> 54445

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 accaattttt ggaaccacta accggggggc cgaactttta ccaattcacc attttcccaa 120

gaggatcata c

131

<210> 54446

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-E12

<400> 54446

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aa 62

<210> 54447

<211> 82

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F8

<400> 54447

attcccgngt gagagcgacg cgtccggaat gccctcatct ttgatcttgg aggtggttcc 60

tttgatgtct ccctcctcac ca 82

<210> 54448

<211> 82

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-F9

<400> 54448

cggaattccc ggctcgaccg cacgcgtccg aaaggnnnnn nnttaccaaa ctaactaatt 60

ctttagaaaa aaaacaacaa aa 82

<210> 54449

<211> 74

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-G12

<400> 54449
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 aaaaaacttt tttt 74

<210> 54450
 <211> 67
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G2

<400> 54450
 cacctaaaat caattctctt gccgtcgata tacaaccatt tgagtgaggg atcttttacy 60
 tgtccccg 67

<210> 54451
 <211> 220
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G3

<400> 54451
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 caaccatcat catgaattca tgatactgga tgtacatcat gatactgcgg agacagacag 120
 cgagagatga ggctagctag atgctgtttc accaaaatat tatgtaacac ccaaattctcc 180
 cattttaaga aataaataag attttcgaaa ggcaaatggg 220

<210> 54452
 <211> 253
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3079-058-Q1-K1-G5

<400> 54452
 cggaattccc ggggcgaccg acgcgtccgg tgttatccac ttagcactan ctgcttgaat 60
 tactcttccg gagccctaaa antcgggggg gggcgccctt aacagggggc aaaagaaatt 120

taagggggcc atttgcaaaa ccacctcaaa gtcttgccag ggggcttcgg gattttcttca 180
cccctaccac tttagttgaa tcacaccccc aaactacttc aatggagtct tcacagggcc 240
tacttagttt cca 253

<210> 54453
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-058-Q1-K1-G6

<400> 54453

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ccttaagggg gcgctgaaaa ggggttactgg gggtaatgca caacaggggg cgagggaaga 120
tttgttggag tcacgaatgg cacatacatt gggggtttct gctgatcaaa ggtcaagatt 180
gctcatggca accgagagac agaaccaaac aactgatagg ctacagagata gccatagaac 240
tatgctggag actgaagaac ttggtgtctc tatcctgcat gacctgagtc aacagcgcca 300
gtctctcttg catgctcatg atgtattgga cgaggtggat aacaacgtcg gcaagagcag 360
gaggaccatt ggaggcatga tgaggagaat ggatagaaac aagtggatca tcggtctcat 420
catagcagtt cttgtcttgg ctatcctcgt gattctgt 458

<210> 54454
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-058-Q1-K1-H7

<400> 54454

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tatcatctcg actgctgaaa aaacacaaca gggcggtttg gaggggaggg tggaggacct 120
tcttctgnnc cccaacaagt tctcggagcg ccagcccatc agcacagcgg cgcagggcac 180
ggacgacaag gactacaagg agcccccgcc ggcgcgcgtc ttatagcctc ccgagcccaa 240
gccctggtcc ttctaccgcg ccggcatcgc cgagttcgtc gccacctttc tcttattata 300
catctccatc ctacccgnca tgggcgtctc caagtccacc tccaagtgcg ccaccgtcgg 360

catccagggc atcgcttggg ccttcngcgg catgatc

397

<210> 54455

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-058-Q1-K1-H8

<400> 54455

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aggatcccat catcttcaact taccaaatat tatacccatg atcaaaacca tggccgaatc 180

taacactaat gctgacaaaa tagagactct tatcggtaat aatcataacc tgcttgagtt 240

acctgatcat gaatctatct gatacttctc ttgcttgtct ccaaccaaac atccttcagc 300

aaaccaaggt ggtgcttata cccactgcgt tgatttccaa cctctgcatt aa 352

<210> 54456

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-A11

<400> 54456

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gcgccggcgc tccatcttcc gctggctgcc ttagtcgcgc tcggcacgcg ggtgacggcg 120

gcagtggcgg cactcaggat cgggctctca gcgacggcat cagcggtttc cctccccgct 180

tctctccagt cgcttcgcgc cctcgcttcc ggtcctacgc acaccatccg gtgaccttcc 240

atataggggtg tgagactacc aaaactcgaa aatgaacaag ggaaagattt ttaagctagc 300

caaaggattc agaggaaggg cgaaaaattg cataaggata gcaagagaga ggggtggagaa 360

tgcgcttgca tattcatatt aggatcgacg caacaagaag agagacatgc ggtctctttg 420

gattgagcgc atcaatgctg gtacac 446

<210> 54457

<211> 141
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A4

 <400> 54457

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 atcgtagttc tcttcatcat cctgaagggc gcagcgcgct tgatacctgt tgacatgcat 120
 catctgacgg ccttactggc c 141

<210> 54458
 <211> 63
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A5

 <400> 54458

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 cac 63

<210> 54459
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-A7

 <400> 54459

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 tgctcgctct ccatectcgg cctcctcttc cgccacctcc acatctcggg gcctgtggat 180
 cctcttgaat ggcagatctc tcaggagatg gcaaatagca tagttgcac tttagccaat 240
 acagtaggag ctgctgagtc tgtattaagg gtggctgcaa ctggacatga caagaagctg 300
 tttttcaagg tggtttctac attgtatttt ctagcagctt tgggaagggt ggtgtcaagc 360
 gctgcccgtg cgtatgctgc cctatgcac ttctgcctct acatgtttg 409

<210> 54460

<211> 154
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B6

 <400> 54460

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 ctttattact tttttaatta ttctatcgtc tagttatata caaattaatt actcaaacta 120
 attaaccctt tccttcttaa tcattttcct cttt 154

<210> 54461
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B7

 <400> 54461

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 aggcattggtg cagtaaaatg aaatagagag agattggagc aattctttgt tatcttagca 120
 acaccttttc ttcttcgag agcactatgt acaagggtgac attataaaag attaagatag 180
 tgaaggcctt attttcgga ggctaata gta cattcatctt gcaagtgttg caactttttt 240
 gaagtttggt taagtaaaaa aagacatgaa gtttggttcg ac 282

<210> 54462
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3079-059-Q1-K1-B9

 <400> 54462

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 ttctgaatc catcgagct ggacatgctg tgtagcgtag atttgatcgt tgagatgacc 120
 ggcggcgggc tggactacag cttcgagtgc atctgcgtgc cgtcgggtgat gaccgacgcc 180
 ttcatgca ccaagatggg gaagggaag acgatcgtgc tgggtgctgga gatggacagc 240
 gacgaggtgt gctgcccgtc gctggagctg ctgctcggga ggtgcgtcat ggggtcgtc 300

ttctgcggtc tgaatcccaa gaccacata cccgtcctcg ccaagaaatg catgggtcaaa 360
gagctgcagc tggactcgct ggtcacgcat gagcttggac tgcattgacat caacatggcc 420
ttcgacctgc ttctgcaatg gaaaagtctg cac 453

<210> 54463
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C3

<400> 54463

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ggaccgcatg ggcggggcgtt ccgtgtcctt gtcctcctcg ctggctctcc tggccgccgc 180
ggcgtctcgc gactcgtggc tgtacgagaa ggtaacgacg gaaggcaacg tgcgcgcgga 240
ctacaacgcg caagggcagc aagtgcgctc tctgatcctg ac 282

<210> 54464
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-C8

<400> 54464

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cgacatatcc acacgaatcc tctgattcat gtcaggggtg tggcattgat cagacgcctg 120
ccatggcgga tcagttcgtg gattcggcga acaatgtgat cattgaggag gtgaacaagg 180
gcctgaaccc aggaatgggtg gttctgcttg tggttgcaag cttcctgctg ctcttctttg 240
tggggaacta tgcgatgtat gtgtatg 267

<210> 54465
<211> 168
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-059-Q1-K1-E1

<400> 54465

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ttggcttctc cteccccctcc ggttcgggtg ggggtgcgtg aggttctccg gggttcgggt 120
tcgtgggtga gcggatcgag atggcggcgt ccgatgttga gtaccgct 168

<210> 54466

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3079-059-Q1-K1-E7

<400> 54466

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accagagcac tagagcagag caacaacgcg acaagagcag agtgagatcg tcgtcagcga 120
gccagcaga tacgagagag aggatggcgg acatcgcggt gctgggtggcg gagcagttcg 180
agaagacggc aaggcgaggc gccccggcg gggacagcgg cagcagcagc gggagcggcg 240
gcgagacaag gaacttcggg gccgtggcca aggtgtggag ctggtgggtg gagtccgcct 300
tcgncgccgc gtccggggtc agattcaccg tcgcggtgca gctgggagcc ca 352

<210> 54467

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F1

<400> 54467

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gggttcgtca tcgctgggtg gccgcgccg 89

<210> 54468

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F2

<400> 54468

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tgtcgggtttc tgaagctttt agctggcagg gacaggtctg tgttggcttt gctgattgcc 120

caacctctc ctgtaatat aatcctacca gagaaactta aacttgactc aaccgatatg 180

ctattaaata aataaagcaa gcaagttagg ataaaaaaaa aaagcaaaat aataatgagg 240

caccaataag aaagactaaa gaaaaccaat tcat 274

<210> 54469

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F5

<400> 54469

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tcccacctgc tgcgcgcgcg gcgcgcgcgc ctgcttgaga tgggacggct tggcgacggc 120

tagtatagtc gcccgtcctg ccgtacctgg ttgtttcctt gccacgtgac gtgcgtgccc 180

gtgcccgtgt gctgggcttt caggcgcgcg gcaactggtg cggatggggg cggaccaacc 240

gtgaactgat cgcgattagg acgatggact aaccaccaac ctgatgtcat taatgaatgc 300

gcgcatagta aatgaacctg catagatgat gcttaactac t 341

<210> 54470

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-F8

<400> 54470

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agcgtgcag atatgtccaa tattctaacg gggcaggaga tcaggaggcc atacaggtgc 120

taaatggaag ccagttggga ggtcatagca taaggctctc atggagccgt atccctgcaa 180

acaagcagcc tcagcaagag cagagccaat ggagcgggtg tggatattat gggatatccc 240

aaggatacta tccatatggc tatgctcgag gccctaaga tctgacatg tacgcctaca 300

cagcata

307

<210> 54471
<211> 218
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G1

<400> 54471

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tttcgacaaa ttgattatgc tgtagccctt cgggtgaggt ctagacattt cgggtgtcttg 120
aagcacattc ttttttctga tgttggaat gattttctgta ggctagtagt agccaatatt 180
atgtttggat tatatcccc tctaaaaaaaa ataataata 218

<210> 54472
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G11

<400> 54472

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aaaaaaaaataa aaaaaaaacc aaaaagacac actcaaactc tcaaaataat tatctcatat 120
ataatatcac c 131

<210> 54473
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-G8

<400> 54473

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gagcatgaag agcagcgtga ggcgaccaga gaggagcgag tctataacttg gagggatcag 120
cttgaatcac tgtatagata gaacggctac gactaaccaa tctctgaaaa ctgaatactg 180
aacatcggat caaatctaata gtgcataatc cactacagcg aactgactg taatgtctac 240

attgactgat catctcatag cggccttgaa tctgaccaga t 281

<210> 54474
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H4

<400> 54474

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gcagcagcag ctgctggcag cccaggggtct caaccccatg gccatgatga tggcgcagaa 120
catgccggcc atgggtggac tctaccagta ccagctgccc agctaccgca ccaaccctg 180
tggcgtctcc gctgccattc cggcctacta ctgattcatg atatttggga aatctcctct 240
atccatctct ctctatctat atatgtaata atgcagtaag acgacacaca ttatcat 297

<210> 54475
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H5

<400> 54475

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aaacaattca tatacaaata aataaaaaaa aacaaaaggg ggggtttctt tctaacagga 120
cctagctttc atacacaaac aggccgcccg ttctatagga ttcaagcgtc acgtaacata 180
ccattcaacg tctaacttt tataaagtgt aacctaaata aaatccact 229

<210> 54476
<211> 217
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3079-059-Q1-K1-H7

<400> 54476

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gccggccggc cggtttatac ccaggaaagc cggaagaaca cttctgcctc ttctccata 120

tccaagaacc aaaggtagct agctagccgc gactcgttgg ctagacgatt caagcagcag 180
 cgcaggatgg tggcgccggt ggtgattgcg tcggccg 217

<210> 54477
 <211> 99
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3079-059-Q1-K1-H9

<400> 54477

gttgggaggg tatttttatt gcttgggtgga cgtatgactt ctacctaaac cgttggccat 60
 ttaaagtcaa acattaggtg cagaaacgaa gcctatttg 99

<210> 54478
 <211> 65
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-H6

<400> 54478

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 gcacc 65

<210> 54479
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-H8

<400> 54479

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 gcaccgagac agggcaacca tgccaggggg gccacggaca gcaagaacct aagccagcca 120
 cgccacggag aacacgccga aggcgaacga ccagagaaca gaaggcgaca acgggacaac 180
 aagcaagcac agggagcaag gcgagagcag aaacgagcgc aagcccaaga gccaaccaac 240
 aacaggggccc aaaacaccag gccaaacaaa aa 272

<210> 54480
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-H4

 <400> 54480

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 agcaccgcga caggacgacc tcccagggcg ccacggagag catggacca ggcgagccac 120
 gccgcgggga acaagccgag ggcggtccgac gggagcagaa ggcgacatcg cgcaacaagc 180
 agggcgagga gcaaagcgag agcacaaacg agcgcaagcc caagagccac gcgaggcccg 240
 gccca 245

<210> 54481
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-A2

 <400> 54481

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 cgcaacggcg agcggcacta tatggccggg cacaggaggg tcggcaggcg gcaaggcccg 120
 gaacgagccg acggcgggcg cctccggcga ggcccgcgag acgaagcgca agacggcggc 180
 gaaggccaag ccggcgggcg cgaccgggag cccgaggaac ggccccgacc gcgagcgaga 240
 ccggggccca cgggcccggag agccggcgag caaccgcagc ggcgagtacc cgggcgacga 300
 cggaagggac acccgagggg cagtcggcgg gaccggggac cggcgccaag aacc 354

<210> 54482
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-A3

 <400> 54482

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ctgcaccatc tgggagagga ggggctcatc agtacctgag agagctgaaa ctatgtaaat 180
tattctgaccg cgaatgagta cggccagtgt taagccagta aactggctgc atgttgggtcc 240
atagtagtta atgtaagaat gtagctggtg gagactgggtt aatgcctagg gtcgtttcta 300
gttgatacca gtattttgta atgtaatgtt ctgtcgggtac ttccc 345

<210> 54483
<211> 147
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-A4

<400> 54483

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aacaggtacg ggttcaaaca ggggacctag acactcagaa gacgaggagc cagtacgact 120
ggctcaactg gcgaacagaa caccctg 147

<210> 54484
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-A8

<400> 54484

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cagggccgac ggccgaataa gcggggagca gcgcgacggc accaaaccg acacagaaga 120
cgaaggaccc cagaacagca acccacagga ccagagaaga ccaaagcaca acaggcacac 180
acggcgcaag ggcaaacagg aaccgcaaca agaaaaggag gaag 224

<210> 54485
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-B1

<400> 54485

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agatctttat ttatttatag tgtcccttca tacacagtaa tgctcatact tattatcggg 120
 tattccaatc cctcctctac atagatacaa caaatctaatt ttgttccttc ctaatatcgt 180
 atattggcat gttcactcat tgtttgggag catcacaatt cacaaactcc tttgcacatg 240
 ttgcaacttt tactggatca ggtatgatat cccagaaaaa aatgtacctt gctttgttat 300
 attacttgct aatgcaccca actattctac cttttgcata tatatattac ttgcactgcg 360
 tataaaatac ttgggttagaa agatataata ttccttatcg gttatattta caagatggtt 420
 taatgcg 427

<210> 54486
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-B3

<400> 54486

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 ccgactagtt cattcaggct ggctgagcta agacaggatg aataacggct ggttgagctc 120
 atgcatgaca tttatttggg ttgat 145

<210> 54487
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-B4

<400> 54487

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 gccgtcatgg ccaccttcac ggcggtcttg acgcggggct tcgccatcga ggtgctcgac 120
 gatcacaacg gcccgccag gatcgacttc aagttccgcc actggggcta catggagggg 180
 cccttcaagg gccaccgctc gcacggccag cgggtcgagc tcttcgcgtc tagatctacc 240
 atgtcgacta atacatgaat gtggaca 267

<210> 54488
 <211> 358

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B6

 <400> 54488

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 accctgtcat ggaggatgat agcaacttga ggacctatcc tagacaacgt agccgtcaag 120
 aagctgttca cccacacaa accaaaggat aacgggggtgc tgaatggaga ctctgaagag 180
 aggtccatgg atgttcccca acacgagctc tgggagaagc tatgtccaac taaccttgac 240
 gagcaaacgt atgtcttacc tgggtggatg aacgaatcaa accgtgccga cgttacatta 300
 actctgactg agttctaagt tcccaaggga aagcgtgccca ttgagcttct gtcaggct 358

<210> 54489
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B7

 <400> 54489

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 ggcataact aggagatcct ttccaacccg gagttccttg cagagggcac tgctattgag 120
 gacctgttca agcctgacag agtgtcatc ggtggccgtg agacccccga gggcaggaaa 180
 gccgtccagg ctctcaagga tgtgtatgct cactgggttc ccgaggacag gatcctcacc 240
 accaacctgt ggtccggtga gctcttcaag ctcgccgtca atgcgttctt ggcacagagg 300
 atct 304

<210> 54490
 <211> 146
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-058-Q1-K1-B8

 <400> 54490

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 ttcagtttat gagcatccta ggagattctc aatcttttgg tgcttttgcc agttgacttg 120

actgcgcatg tgccgctctg caccaa

146

<210> 54491

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C3

<400> 54491

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ccgatggcgc ccaaggccga gaagaagccc gcggcggaaga agccggtgga ggaggagccc 120
gcggccgaga agacgaccgc cggaagaag cccaaggcgg agaagcgggt ccccgctggc 180
aagtccgccg gcaaggaggg cggcgagggc aagcgtggca cgaagaagg caagaagagc 240
gtggagacgt acaagatcta catcttcaag gtgctgaagc aggtgcaccc ggacatcggc 300
atctgctcca aggccatgtc catcatgaac tccttcatct acgacatctt cgagaagctg 360
gccggcgagg ccgccaagct cgcgcgctac aacaagaagc ccaccatcac ctcccgggag 420
atccagacc 429

<210> 54492

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C6

<400> 54492

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tgtaaaaaaa aaaaaagaaa aagagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa aaaaaaaaaa aaaaaaacaa 180
ataaaaaaaaa aaaaaaaaat aaacacaaac aaaaagcaaa aaaaattaaa caaaataaaa 240
aaaaaaaaaa caa 253

<210> 54493

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-C7

<400> 54493

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tctgccgtgt tgttagaata aagttgggtg cgatcgatcg atctgtggtg atgagtgtcc 120
ctatctgtgt gtttgtgttt agttccagtc gtctgtgagg aagtcagtta tgtttgagtg 180
agaggggtac ttcgctcttc ggcgaacact gtacttgta tgaggagagt tttcataccc 240
ggtgtgtagg aactctgtac tgtactctga tccttccttt ttcacgaag tgggttttat 300
tttattcaat ttttattact ttattatatt t 331

<210> 54494

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-D3

<400> 54494

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agctcctgga agctgctggc caccgactcc aagcccaagg ccgccaagcc caaggcaccc 120
aaggccgcgc ccaagcccaa gctctcagcg aaggcgaagg ccaagaccgc tgctaattccc 180
aaggcggtgt tacccaaacc caaggccaat gccaatgtca agcctgtcgc ttctgccgac 240
ttgtttccca agcc 254

<210> 54495

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-D7

<400> 54495

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tgaaccacaca tccggactat ggccatctca caccagcaga gcgacgtac atggaacaga 120
agcagaagat cgacatgcag aagatggcca aagtcgcca caagtcgcat agagaccgca 180
tccaagactt caatcaagat ctcgcaaacc taagcgagca ctacgacatc cccaaagttg 240

gccctggcta acatagccaa actggctgtg ttacgcacaa caattgtgtg ctgggtctat 300
ccatttatgt tagcatgtta cgtatcgatt aaaacgattt gttgccacca gaagttgata 360
tttaatttca aaagcatgtt ccaactt 387

<210> 54496
<211> 88
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-E5

<400> 54496

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cccactcaac cgcccacgcg cccgaaaa 88

<210> 54497
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-E7

<400> 54497

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gacgggcaga tgggaaacta ccagagggca cgggagatac aacaacagaa aagaccgaag 120
ccgaccagaa aggggaccgc ac 142

<210> 54498
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-058-Q1-K1-F1

<400> 54498

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tccccgtcgg cggctccttt tatatatattt ggaggccgtc gccgccgctg acccaggttg 120
tcttgatggc gcccgctgta gaagccgtga aggagacagg ctcgatccag aaggttcctg 180
ccttgaacga aaggatactg tcatccatgt ccaggaggtc ttgtgctgca cacccttggc 240

atgaactgga gataggtcct ggtgctccaa ccatattcaa ctgcgatatt gagataactca 300
 ggggcatcaa gggtatatat gaacttgaca agaaaactgg actgatcaaa gtggaccggg 360
 tgctgtattc gcaagtgtga cccttacact atggatctat tcctcggact cttgggaaga 420
 cagtgat 427

<210> 54499
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-G8
 <400> 54499

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 gcagcaccgt cgagtcctgg agcggcggca gcggcggcgg cgcccccgtc gggatcctcc 120
 gcgccccggc cgccgaggag gactgccgca gctactgcgg ctccctcctcg tcggcgctct 180
 gcgaggacgg cgcgtcgggc ccgggctgtg gcgacgagac cgccgcgcgc ccgcggtgct 240
 ccccgcttac gttcgacctg aacgtgccgg accccgcggc cgacgagatg gactggcgct 300
 gcgacacgct gctgcacctg tagccgcgaa cggaagcga gcactcagca taactgctgc 360
 tatcgtgcta tgtctgcata gaaatcgata gcctaaattt tttctctcca ccgcttcttt 420
 agtcccactc tctctctt 438

<210> 54500
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-H1
 <400> 54500

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 tgagtacatg aaaaagatcg aatccatcca gaagcagaag gaacaggaac tgatgaaaat 120
 ttagacctca agctgactgt atggctggtg aggagtaacc gcctccgtga agcatggacc 180
 cctgcatatg ttggtgtttc tgaagcaatt tgtttggttc atggcttttg cgtctcggcg 240
 ctgcgccagg gatgcacgtt ttgaatcagg cgctttgctg gaacttttgg gtgcacacaa 300

gttgagacaa tgctgctgct gctgtgtgtg tgtgttttga gattaagaca atgctgctgt 360
 gttttttctt tgagattaag acaatgctgt tgcgtgtgtt cttctcgttt tctgtaatgt 420
 tcgtaaatag tctcttcgtc g 441

<210> 54501
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-H10
 <400> 54501

aacacgcgta ctcccacgcg tcctggcact cgtccggcta attgactaga catgagagtg 60
 cggatcaggt atatgatacg agacagagag gcatttacga tgattgagag ctgcatggtc 120
 atcatggata tgatccaggg ctgcacgaaa cgcgcattta agatcctatg ggctacgtac 180
 atgacatcag catgcacatg taaccatgag atgtatagga taggtcagat taacctaatc 240
 tatgatcata tatactagaa tacctgaaca aatcttaaga tcttgctaaa caactgtatc 300
 ctttacataa accattacac gatgcacgat catcaca 337

<210> 54502
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-H11
 <400> 54502

accacgcgta cgcccacgcg tccgcccacg cgtccggtga agtggttcgga tcgcggtgac 60
 ggcattctcgt aaattatagg agaaaattct gattgtacta cgatccatag ctacattatt 120
 atcctgtata atatgcacat atgcatggga tccgtatctt atagctgatg ggttctgttg 180
 ctcaaacct tttgtatatc tcaccatcat atatatagat agtgcattatt accctatgat 240
 actattatcc acgctggaat ggattatcaa atcttcatta aatgggttatc caatcaatct 300
 tttttttaat ctattttttt aattattatc attactt 337

<210> 54503
 <211> 452

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-H2

 <400> 54503

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 tgcagccggc gtggaccacg acgtcaagat cttggaggta ttgtcggatg gctcggacgg 120
 caagtgtttg tgaccttggg aactccgttt tcattaacca cacacctcta gcaaggagta 180
 caacctgaaa ccaattgggtg atgctgggtcc tgtaactgag gcggggaggga tctttgccta 240
 tgcccgggaag acatgaatga ttgcgttgaa agctgctgca tgaggggaaag gtaaaataat 300
 tgtatttcat gttaagttcc tatgcatatc aagctataaa attgagcctt gtcgatacat 360
 attgttgtgt gcttagatta gtcttcatat aattgttgtt cagggataaa atgggttcat 420
 attagtcact tgtgtttgat agtttcatgt at 452

<210> 54504
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-H3

 <400> 54504

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 gagtatattg tcggtgctat gccagcaaca gagcttattt tgtcccgaaa aaaaaaaca 120
 gaaagagaaa gagaccattg aaaactacga aatcattaac cacacaccta taagcaagga 180
 gtacaagatg aaaccaattg gtgatactgg tcctgtaact tgagcaaaaag ggataaaaag 240
 actatgcccc atttcatga atccaatgtt ttgaaagctg ctttatgaag gaaaggtaaa 300
 ataatgggac cccaagataa attactatgc atatc 335

<210> 54505
 <211> 457
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3088-050-Q1-K1-H4

<400> 54505

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cataaacagc taaagacgga ggataagata tctagtgtgt gtgagaagtt gctcaaccgc 120
tgtgtggcac ctacatctgg tggcgaagga tgtgataaca tgacggttat tgtgggttcaa 180
ttcaagaaac cagcttttagc tggtgctact tctagcgtg agcagtctgc taccactgca 240
gaagggatgc ggccaacga ggtcgatggc ccagattacc cccgaagta ggcgttgagt 300
ggcacaccgt gctgtggagc tctaaccggt ggataataga caaaaaagga tagtgagggtg 360
gtgtatataa gaaaagggat tctattcgac aatctcttat agggtttgnt gcttccttct 420
ttctagtgtt cagagtcgtc gcaacctgta atacatg 457

<210> 54506

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H5

<400> 54506

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ctccgacacc attgataatg tgaaggccaa gatccaggac aaggagggta tccccccgga 120
ccagcagcgg ctgatcttcg ccggcaagca gctggaggat ggtcgcacct tggctgacta 180
caacatccag aaggagagca cctccatct ggtgctccgc ctgaggggag gtatgcagat 240
ctttgtgaag accttgactg gcaagaccat aaccctggag gttgagagct ctgacaccat 300
cgacaacgtg aaggctaaga tccaggacaa ggaggggatt cccccagacc agcaacgtct 360
gatctttcgc cggcagcagc tggaggatgg tcgcaccctt gcagactaca atatccagaa 420
ggagagcacc cttcacctgg tgc 443

<210> 54507

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H6

<400> 54507

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atgtgatgtg agccactgca cgcgtgagtg tcacatgggt cgctgctctg tctcgtctca 120
tgtgtttcaa actgtaggca gcagaggatc gagatgcgtg tctgctttgt tcgtgttcac 180
tgctgtcagt ctgtcaccga gttcaataat ttagctttgt ttcacgagg 229

<210> 54508

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H7

<400> 54508

cccacgcttg acgcacacgc gtgcgaattg accgggtggaa gttctgacta aatttgctgt 60
caaacggatg aactatatat tgacgttatt ataccaacag cacaccttat tttgtcccga 120
aaaaaaaaaa ttactagact aatgtgtaac taactgtaag caacagagta tccaaataac 180
gtgtatcgat ttattcgtga acaatgctat caagactgaa accgaattta aaaattaaaa 240
cttagataaa taaaaagtgt gcacctttta taag 274

<210> 54509

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-H9

<400> 54509

aaaaaggcaa atggatcaga aaaaatctca agtcttgtat ttaagattac taataggggt 60
gcgatacaaa acggctctca aagctcacag tgctgttgtg ttaaaggctg agagcatggc 120
cgacaagggt gagtgggtaa ataagatcaa agctgttatt cagagcaaag ggggttcttt 180
caagggtcca agtactgagg gtagttcaat gaggcaaagc aattcggatg gcgctttaga 240
tactatggca cgtagacctg ctgatcctga agaagaactt agatggatgt ctcaggaagt 300
cgtgggttatg tcgaagcttg tttgaatagt ctggcagcaa atgttccaaa agctattgtg 360
ctttgtcaag tggagaaagc aaaagaagac atgcttaacc agctatacag c 411

<210> 54510

<211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-B11

 <400> 54510

 gcataccgca tattttaagc atcccatgaa tgctcaaaaa cttcgtatgc tgcaattgat 60
 ggatcttaca ttccgggttg gcaaggatg ctcacccgta tttgaagatt gacgttggtt 120
 ataacctgat actattatgt gataagatac atatagtctt gtcagttggc tttacctttc 180
 gaaacatttt gattgttatt gtatttaata ataacatatt ttcgtctttc ctgtaaatac 240
 ctgttaaagt taacccttat ttctgttaca gttttaaaat aaattattta tcttattata 300
 attattatgt tatttctttc ttatattatt ttttattttt tttta 344

<210> 54511
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-F10

 <400> 54511

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 ttattttacc caatccctga aacttttggc atcacatgac ttgatgtaaa ccatctttag 120
 aagaacattt gagatactac agcttctatt ttcaaaagtt tgaatctgtc tacacacatt 180
 gtgaatatta cagtgggtgat gattttataag atgtaaatat tctaaatggg ctgggtttcac 240
 tgacacacga tcatatggcc ctgggtttggt gctatggggt cttctttttga gttgaatccc 300

<210> 54512
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-057-Q1-K1-H11

 <400> 54512

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 atttaagatt actaataggg ttgcagtaca aaacggctcct ggaagctcac agtgctgttg 120

tggttaaaggc tgagagcatg gccgacaagg ttgagtgggt aaataagatc aaagctgtta 180
 ttcagagcaa aggggggttct ttcaagggtc caagtactga gggtagttca atgaggcaaa 240
 gcaattcggg tggcgctttt atatactatg gcacgtaaac ctgctgatcc tgaagaaaaa 300
 cttatatgga tgtctcaaga agttcgttgt tatgtctaag ctgttttgaa tagtcttggc 360
 agcaaagtgt ccaaagtctt attgtgctt 389

<210> 54513
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G6

<400> 54513

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 agctactggc cggcgtcacc atcgcacacg gcgggggttct gcccaacatc aaccctgtgc 120
 tgctcccaa gaaaaccgct gtcgctgctg ccaaggaagg caaagagaag aagtcacca 180
 agaaggccgc cgcgcgaag tcgccccaaa aggtggcgc ctcgtaggtc cctggcaatg 240
 ctgatgcact gtctctctct gtctctctg aactgaaacg ctccctaactg tcgttgctcg 300
 tcatggctgt tgttgtttga tgcgctttta ttgtggttgt tcgtgtgtaa ttgcttgctt 360
 ttcgcccatt tggcatgcac tgtgtagggt cacactgggc taggttttca atctgggaaa 420
 caccggttta gattcaagga gcgtgaac 448

<210> 54514
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E6

<400> 54514

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 tggtgacaag tggaagtccc tgtctgatgc cgagaaggct ccctacgtgt ctaaggcaga 120
 gaagctcaag gctgagtaca ccaagaagat cgacgcttac aacaacaagc agtctggaga 180
 cccacggcg tctggtgatt ccgacaagtc caagtccgag gtgaacgacg aggacgagga 240

gggtgacgag tgatgtatga cggatgaaac tctgtccaag tgtttgacagt cagggaaaaa 300
atctcgtcgt tgtcggccta accgggtttt ctcgaaagac tttctagatg cagtagatta 360
gtgccgtctt ctgagtagtt tccttgcaag tgtcgtcccg tccctggaat gaggcaattt 420
agtttgaat ttcttcgctt catc 444

<210> 54515
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E7

<400> 54515

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tgtgttgaaa gagctgaaac gcctgtgtgt cttaatctgg aaccctcttc tcccgtttta 120
cttgtccgtg gaaacatttc atgttccagc tggttgtata ttccgaaaca gaccatgttt 180
tagttcactc gggtcttcgt tgacttaagt tatttatcaa atatttaagt atcgtagta 240
agtttgaaac ctggggggaa gaactatgct ggctttgttg tactgccaat ttcaatttag 300
gaaggatgaa attgaagtta aaaaacatct aaaaagctca tctacaag 348

<210> 54516
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E8

<400> 54516

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ggcgcgcaag tacatgtccg gcgcggggct ccgcgccgga tgcgggcccg gggccgtggg 120
cgaggtgtgc atgccgtatc tgggtggaggg tgtgatgcgc gccgt 165

<210> 54517
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E9

<400> 54517

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tggggagctc cgggaacgga agctccgccg cccgcgcgtt cgacctcaac ctcccggccg 120
tgccggagtt cgccttccgg tgcggcgcca agcccggcaa gatgtgggac gaggaccagg 180
aggtgcagag cccctcggc ttcaagaagc cccgcctcct catgaccgag tgagcctgag 240
cctgagccga ggcgcggatc tgatgttgat ccgcacgaga cttttttgga tgttcgggtg 300
aacactattc gttcgttcaa aaaaaatttt tattattttt tatgttttt 349

<210> 54518

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F1

<400> 54518

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cgatggcgcg cggcgtggtg tcggcgaagg gcggcgcggt cgcgggcaag aagaaggggt 120
cggtttcctt cactgatcag tgcaccaagc cagtggagga caagatcatg gaggtcgcct 180
cgctcgagaa gtctctgcag gagcgcatca aggtcgccgg cggcaaggct ggcaacctcg 240
gcgactccgt caccatctct cgcgagaaga ccaaggtcac cgtcacctct gacggaccct 300
tctccaagag gtacctgaag tacttgacca agaagtactt gaagaagcac aacgtgcggg 360
attggctacg cgtggttgct gccacaagg accgaaacgt ctatgagctc cgctacttca 420
acattgctga gaacg 435

<210> 54519

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F2

<400> 54519

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gggaaagtga cgagggatgt ctgcgagaat ggcgtcggcc aatgtcgtcg cggctctctc 120

caaaaaaaaaat gtgtagggtc ttttgacaat cgattgcac aatccattag atgacaatat 180
catgtatgtg gacttgggtct atatgttcct acaggaccgc atcttggccg cctgcagagg 240
acctgtgccc atttaacact atagaaccat gtgtgaccag aatactaact taaccgtaac 300
ctca 304

<210> 54520

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F3

<400> 54520

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accgccatgc tggatgatctt ggaaacgtga cagctggagc agatgggtgtt gctaatatca 120
atgtcaccga cagccagatc ccactgactg ggccaaactc aatcattggc agagctgttg 180
ttgttcacgc tgatcctgat gatcttggaa aggggtgggca cgagctcagc aagagcactg 240
gaaacgccg tggccgtgtt gcttgtggga tcattggact ccagggctga aaacgatcgc 300
cggacttggg ggtgcctgag aggtccgtct cctgccgtcc ccagcagacg agcctgaaca 360
ttcggagaca tcgtgaaata agagcgtcgc tgatctgtga tcatcgtatt tgtcattatg 420
cacctgtagc aaccgatgga ctgaactgtg ctgg 454

<210> 54521

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F5

<400> 54521

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gcatcagacg gcgttgataa tatcaatgtc acctacagcc acaaccgact gactgcacca 120
aactcaatca tcatcagagc tgtctttgtt cacactgatc ctgatgatct cgtaaagggt 180
gcacacgagc tcagtacgag cactggaaac tcc 213

<210> 54522

<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F6

<400> 54522

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tacgaagcgc tgtgcccggt ctgctccgcy tttgtcgtga acgacctctc caggggtcttc 120
cgcgacggga tctcctccat cgctgagctg cggctcgtcc tttccgcaat gggcctttct 180
cggccacagg aaccgtcact tggcaacatt gaaaggacca gtggccaact caacgctata 240
gaagcttgcy tgatcagaat atggcctgac gcggagcagc attttccttt cattcaatgc 300
gttgagcatt tagcactgac tcggaaatgg gactcctggc agtcttgctt tcatgaaac 359

<210> 54523
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F7

<400> 54523

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agtaccagag gcggcatgcy gctaategct gaaaccgtac tgctgcacca tagtcgtgaa 120
ctaacattaa atggacttac aggcagatat ctattgacat ggctcaaact caatcattgg 180
catgagctga tgttgctcac tctgatecta atgaacctt 219

<210> 54524
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-050-Q1-K1-F8

<400> 54524

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aattaagcag ccaaattcag tgcgatggcg tcgtccgtca ccagaaccgc atgtctcttc 120
gtgctcacac tgttcgtcgt ctccgcgggc gtgatcttgc ccagctccct gtgccatgga 180

gcccgcggcg tcgcaggggtt acgtatcggg ttggacccta accatcctgc gtgcatccgg 240
 gcatgctcag ctctgngggg ctctacact cgccttcccc cctatcgagg tggcgggcct 300
 gtggaaccgc ttccccacc gaacggaggg aaccctgac gccgctgcc tacgatggaa 360
 cgatgcgcca cgcacaactg tatcttagct gtgcttatat agtatatgtg atcaataaaa 420
 ctggagtagt gctcg 435

<210> 54525
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-F9

<400> 54525
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 ctccacatcg tcgattaagt tgtaaagcag tatactctgc tcgcttagta attttagttg 120
 gggtgaaaga attgtaaatt aaaacaattt tggtagttga ttttaatgtc gtatttctta 180
 tacc 184

<210> 54526
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G1

<400> 54526
 aaaaaacata caaaaaaaaa aaaaaaaaaa atcaaaaaat atttaaaaaa aaaaaaacia 60
 aaagaaaaac taggacaaaa tcaaaaatca aacacaaatt aaacaacaaa catctaaata 120
 cataaaaaata taaaaaacct caccacattt aaatcgaata tattcttaat tccattacta 180
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<210> 54527
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G10

<400> 54527

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tcggcatggg tctgatccag ggcggcgcg aagcgccaact gaaggtgcta cgcgacaaca 180
tccatagcat caccaagccg atgatccgga ggctgggttag gatgggtggc gtgaagctca 240
tctaggagct tatatactag gagaccgaa gcggtgctcaa gatctttctc gagaacgtca 300
tccgcgacac cgtcacctac accgagcacg ctcgccgcat gaccgatacc gtcattgtacg 360
tcgtctacgc gctcaagcgc tagggacgca c 391

<210> 54528

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-G12

<400> 54528

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ggtaggtggc ggagcccatg gtgaaggcgg cgttcgagaa gttcggcggc aggatgaagg 120
agatcgaggg gttcatcgac gagtgcaaca acaacctgga cctcaagaac cgctgcggcg 180
ccgggatcgt gccgtacgag ctgtcaagc ccttctccaa gccgggagtc accgggaggg 240
gcatccccag cagcatctcc atctgatcca tctcagcat gcattagtcc aattaattaa 300
atcgggggtt gtactattat tgcattgaga ggctgcttgt cgaataaaac gtactatatg 360
tacgattgta ttgtacatgt gtgtcaatgc aacaagaggc acgtttgaga c 411

<210> 54529

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E5

<400> 54529

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acttccgata cccgcttgca tttgcatgta tgggtggcag ctgtctttgc aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaagga cgaacaatct aaaaagatcc aaagctaaca tacacaaaca 240
 tgcaacgtca taactttaat ataagtgta cggaaattca attaaaatgg ccgtactttt 300
 acaaattcgt gcctggaaaa acctatgcgt ttcccaactt 340

<210> 54530
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C5

<400> 54530

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 aatactagtc tgcgtgtttt ctaatatgaa gatccatcta ttttattact taaccatagc 180
 gtagatgatt ggtaacagat agatacattt tatttactga ttaaaatgca gcagcgactc 240
 cccgaactta aaacaggtaa acgggtgtgg aaacttagtg gtcattcaa aactgtctaa 300
 aatcggtgtt gctcaaaca agtgctgaca tggcatgtca tgttgaaatc atttgagtct 360
 ct 362

<210> 54531
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C6

<400> 54531

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 aactacctta ctagggacta gagcccatac agtgatctac taaatcccag tacagtctcg 180
 agtgtcaaga gaagaatctg aacctagaag agctactgga tcctgatggt agagacacac 240
 gatgagcact ccaagacgg 259

<210> 54532
 <211> 181
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C7

 <400> 54532

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 gaccgccgca tccacccctc tgctgaagc tgttcgggtt tctttttgtt tcccaatgcg 120
 tctgtggtct gatctctttg taatgaaaac ggcagctca attagaatga acttcagttg 180
 g 181

<210> 54533
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C8

 <400> 54533

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 ccgggatacg acggtggact gcatcggcac cggagcatgg ggtaagggga agaagggagc 120
 ggccgggagc aaggctggcg gtccaaggaa gaagtcggtg tcgaggtccg tgaaggcccg 180
 tctccagttc cccgtcgcc gcatcggcg ctacttgaag aagggccgct acgcgcagcg 240
 tgtcggcacc ggcgcccccg tctacctcgc cgctgtctc gaataacctc acgctgatgt 300
 tctggagctc gccggtaatg cttccaggga caacaagaag actcgcatta ttccgtgcc 360
 cgtgcttctg gcgatccgga acgactagga gcttggaag cttttggg 408

<210> 54534
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C9

 <400> 54534

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 ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaata atataaaaat aaaaaattaa taaaaaatta tataaaaaat tataattata 180
 tataataata tataataaat taaaaataat ttttttattt attaaaaaat tatattttttg 240
 gaattatatt ttttaacttt ttttaattttt tttatttttta attttttttta tttattttttt 300
 tattattttt 309

<210> 54535
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D1

<400> 54535

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 attattgtcg tattatccta tgaaaccctt ttattttcat ggtatcgaaa aagctctatc 180
 gtgccagata aacataggct ccttgccctca atctgctgta atcttggtgg ttcactggac 240
 ttatggttcc tga 253

<210> 54536
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D11

<400> 54536

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 gcagcctccc cgccaacgag tgcaggtacg ccatcttcga ctacgacttc gtcaccgagg 120
 agaactgcc aagagcaag atcttcttca tcgcctgggc tectgacacg gcgcgcgtga 180
 ggagcaagat gatctacgcc agctccaagg agaggttcaa gggggagctg gacggcattc 240
 aggtggagct ccaggccacc gactccgccc aggttggcct tgacgtcatc cagggccgtg 300
 caagctgagg atgccacgag atgaactgcc catgccagag gatgtatgag catcatcagt 360
 tccgatgaga acttaactgg gcgggctatg taaaaactgc atccaccgca gtgatgaaat 420
 caatctagtc aatctaccac 440

<210> 54537
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D12

<400> 54537

aaaaaaaaa aaaaaaata aaaaaaaaaa ataaaaaaaaa aaaaaaaaaa aaaaacatac 60

gg 62

<210> 54538
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D2

<400> 54538

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agatacgacc atggactcca ccggcaccgg agcaggggggt aaggggaaga agggagcggc 120

cgggcgcaag gtcggcgggc caaggaagaa gtcggtgtcg aggtccgtga aggccggtct 180

ccagttcccc gtcggccgca tcgggcgcta cttgaagaag ggccgctacg cgcagcgtgt 240

cggcaccggc gccccgtct acctcgccgc tgtcctcgaa tacctcgccg ctgaggttct 300

ggagctcgcc ggtaatgctg ccagggacaa caagaagact cgcattattc cgtgccacgt 360

gcttctggcg atccggaacg a 381

<210> 54539
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D3

<400> 54539

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agtcttcact acgatagggt ccatagcaga ccttggtgtt gttacaaca ccggcatgct 120

gccagaaatt caggcaacca tcaggcctcc tgtggtgaag aacatggaga aagctctatg 180

gttccagttc accattggct ccttgccctct ctatgctgta gtttttgtgg gttactgggc 240
 ttatgggtcc tcaacatcag gctacctcct caacagtgtc acaggcccag tctgggtgaa 300
 agcggttgca aatctgtcgg cattttttca gacagtcata gcgctgcaca tctttgctag 360
 ccccatgtat gaattcctgg acacaaaata tggaagtggg cgtggtggcc cttttgagat 420
 ccacaacgtg gcgttcagag tagcagtcag aggagggc 457

<210> 54540
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D4

<400> 54540

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 gccagaaatt caggcaacca tcaggcctac tgtggtgaag aacatggaga aagctctatg 180
 gttccagttc accattggct ccttgccctct ctatgctgta gttcttgtgg cttactgagc 240
 ttatgggtcc tcaacatcat gctacctcct caacagtgtc acaggcccag ttctgggtgaa 300
 agccgttgca aatctgtcgg gcatttttca gacagtcata gcgctgcaca tctttgctag 360
 ccccatgtat gaattcctgg acacaaaata tggaagttgg cgtggtgggc cttttgagat 420
 ccacaacgtg gcgttc 436

<210> 54541
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D7

<400> 54541

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 caggcaacca tcaggcctcc tgtggtgaag aacatggaga aagctctatg gttccagttc 180
 accattggct ccttgccctct ctatgctgta gtttttgtgg gttactgggc ttatgggtcc 240

tcaacatcag gctacctcct caacagtgtc acaggcccag tctgggtgaa agcgggttgc 300
aatctgtcgg cattttttca gacagtcata gcgctgcaca tctttgc 347

<210> 54542
<211> 69
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-D8

<400> 54542

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caaaaaaca 69

<210> 54543
<211> 122
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E1

<400> 54543

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gtgtacttga tagatttgta ttagatgctc aagctacaga gggtaggttc ctaattatga 120
cc 122

<210> 54544
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E11

<400> 54544

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aagctccaaa atcatttgag aagcctgcac cagttcaaaa gccaaactcct ccactcctctg 120
cagagagact aaaagatata gctgctggta ttcaaagtag taaatcaaac aattacaaaa 180
gatctgaagg ccagaacttg ggaaatttcc ttacggaccg tccgtcgacc aaagtgcagg 240
cagctccagg tggcgactct tactcgggtt atcttttttag tggcagcaaa gatggcaagt 300

gatgtacacc tgctgttagt gttcgccatg atcatgggag aaggtttctg cttacaaaag 360
 gaaaaaggga aaagaatctt gtattccatg aggtaatatc aaactgctca tggatatctat 420
 gttggtg 427

<210> 54545
 <211> 234
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-C4
 <400> 54545

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 gtgcgtaaga gctgaccaag ggtagccaat cacatgaaag cagcccctat gacgaactat 180
 gtgaccaagc cctttaactc tgctttcaga atctggaaca gaacatagga cgct 234

<210> 54546
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-050-Q1-K1-E12
 <400> 54546

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 gatgtaaacc agcttttaga gaacatttga gatactacag cttctatttc caaaagtttg 180
 aatctgtcta cacacaaagt gaagattaca gtgggtgatga ttcagaggat gtaaataatac 240
 aaaatgggct ggtttcactg acacacgatc atatggccct ggtttggtgc tatgggttct 300
 cttttgagtt gagtcctat gaagggatcc gtcattccgt tggacaagaa gataatcttt 360
 aatgaagtct tgggagatct ccctaattgtg ttgcctcatt ttccatgaaa aacagggtga 420
 tatatgagag gatcgcggtc aa 442

<210> 54547
 <211> 363

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-E3

<400> 54547

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ggactacttc gatcggtact gatcttggt gagattagag atctctgact gattctccag  120
tcatgtgatg tgtgtatgta tgctaaatat gtctgtatac catcatgggg tacactgacg  180
cttacattgc acatatgtaa ttatccactg atgtcgtggg tacgtacgca aaatatgtat  240
gtatgccatc atggtatgcg ctgacactta cgtttgacac atatgtgatt ataaagatca  300
ggctgctggc caggaacact catcgttgag gtgataggac ttaagtgaat cgtacatgag  360
att                                                                 363
  
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<210> 54548
 <211> 227
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A2

<400> 54548

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cggacgcgtg cgaaaaaaaa gaaaaataat ttaaaaaaaaa aaaaaaaaaa aaaaaataaa   60
ggaaaaaaaa aaaaaaaaaa aaatacaaaa aaaaaaaata aaaataaaat ataaaaaaaa  120
aaaattaaat aaaaaataaa gaccgagagg ttataatcgt tcacgtgata taaatgccaa  180
caacaaaata taattcattg ataacctaaa caatattgaa attactt                227
  
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<210> 54549
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A3

<400> 54549

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cccacgcgtg cgcccacgcg tccgcccacg cgttcgtcca cgcgtccgaa taatatatag   60
gcctgtaaca acggcagggc agagtggaag gtcgacccca ccaagcggag gccacggtct  120
gaaactcaaa ctgggtttca actgacgcta gctggcttgg aagctcgagg atggatcgaa  180
  
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gactatgata tccttcattg tgcctgtca ggctacctac ccctgcaccc tgttggttat 240
 tggttaaaat ggttattgac caaagggtgtc ctgcatcaaa caaggctcac cttgatgtta 300
 atgtgctgag ggatctaag tatcattagc gttatccagc tcttgtttac gtgctccatc 360
 tcaatccatg cacgttagga tggattgtct aatctagttc aaattt 406

<210> 54550

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A7

<400> 54550

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 caatactctc actgattata gctcgattaa ctaggatgaa ttccaactag ccttatttaa 180
 gaccatcaca aaggatagca tgtagctca ccgggtcata gactagtttg acacgataca 240
 caacggaatt ctcgagtttg atgaatttgc tcgtgccctt tctgtgttcc atccgtgtgc 300
 accaatcgat gacaaatttg attttgcttt ccaattgtat g 341

<210> 54551

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-A9

<400> 54551

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 attcatgt 68

<210> 54552

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B10

<400> 54552

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gcgcacccctc gccgactaca acatccagaa ggagtccacc ctccacctgg tgctccgcct 120
ccgaggtggc gccagaagc gcaagaagaa gacgtacacc aagcccaaga agatcaagca 180
caagcacaag aaggtaaagc tcgctgtgct gcagttctac aagggtggacg acgccaccgg 240
caaggtgacc cgcctccgca aggagtggcc caacaccgag tgcggtgcgg gtgtcttcat 300
ggccaaccac ttcgaccgcc actactgcgg caagtgcggc ctacacctag tctacaatca 360
gaaggcgtaa tcccatgcgc cgctttgctt caccgccta cctatcaagc attcacctgt 420
tggttactcg atttgaatat catttagatc t 451

<210> 54553
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-050-Q1-K1-B11
<400> 54553

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cgggtggcggc ggtggctacg gcggcggtcg cggcggcggc ggctatggtg gcgggcgccg 420
tgacggcggt tatggcgggc gtggcg 446

<210> 54554
<211> 443
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-050-Q1-K1-B12
<400> 54554

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gcagcaggat atcaggacct cttcctcaaa agaagagccc tgcttctctg gtaggaatgc 180
agaagcagtt caagtgaag atactaagct ctcccgggtca gacatgaaga aaatccgcaa 240
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agagaatgaa gggttcagatc ttgggtgatga agactggctg ttcagcagta aaaggaactc 360
cgatgctatc atgggttcaaa gcagagctac tgatagttca gtgccgatcc atccaatggg 420
gcagcagaag ccttctttac aac 443

<210> 54555

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-B6

<400> 54555

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agagtggacg cactgataac cagtttaaca taaaagttta agcaatccac ttataactttt 120
ctt 123

<210> 54556

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-050-Q1-K1-C1

<400> 54556

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acacattatg cgaagttttg acggcacggg taccctcatc accagacgtt tttccatggg 120
tgaaaccgtg atcgggcacc ccaacagcta ctagaaagtg atactcttta tcagtcagtc 180
aagctgaata ttttcaaaat tttcagacca tacagtgata agcatgctac tgctggacag 240
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tgtccgagtt atacgagaca tatggcttga gtcgtgtcac caatatgctt atgccatatg 360

actatcagag tntacttttta atttcagaga acataatttc catcaatttc agtaggttca 420
 tttttaatga at 432

<210> 54557
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C10

<400> 54557

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 aaaggttcca tacttttgtt tgcttggttt taattttttt attttgttac ttagtttaat 180
 ttaattaggt catatgttta taattttata aactggtaaa t 221

<210> 54558
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C11

<400> 54558

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 gaggtgggat ttgggttggg ttggctccga atgcgatgtt atgccttagc acgtgatccc 180
 ccaagaacaa taatttttct ttcaggcttc tccctaaccg aacattggag aggacagcat 240
 gtaaagaaat gtaaaaatgt accggttctc gatcaaaaaa aaaaaatatt attaaaatta 300
 taaattatat taatat 316

<210> 54559
 <211> 439
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-050-Q1-K1-A10

<400> 54559

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 tcgcatggat ccaactgtgt cttcagctca gatcagcgca ccatctcaac agagaggtcc 180
 tatgttccat ggaaggaatc ctatgggtccc ccttccttca tttgattcac ctggtgagcg 240
 gatgagaagc cggagaaatg attcaggtgt taaccagtct gataataagc ggcagtatga 300
 gcttgatgtt gaccgcataa tgcgngggga agactcacga actacactga tgataaagaa 360
 tatcccaaat aagtatacct ccaagatgct cttggctgct attgatgaaa gtcataaggg 420
 cacttatgat tttatttac 439

<210> 54560
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C12
 <400> 54560

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 ggatctacac aattgtgaca tgatgtgttt ctacaggcaa tcgttggtta ctcatcctc 120
 aataattcta cctcaagggt accttgatga tttttacaat tctgcttttt cggaccgtaa 180
 attcaagcta ttcttcatag gccatgctca tttacactga tacttccaaa gatattcatt 240

<210> 54561
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3088-050-Q1-K1-C2
 <400> 54561

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 cgagcgcacg gtcggcgggc catggaagaa gtcgatgtcg aggtgcttga aggccgatct 180
 acagttccgc gtcggacgca tctggcgcta cttgaagaaa ggccgggtacg cgcagcgtgt 240
 cggcaccggc gccctcgtct accttgacga tgcctcga ta 282

<210> 54562
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-050-Q1-K1-C3

<400> 54562

agccgccatc gcgccgccga ccgccgtcga cagcctcgac gacctgctca tcgacatagg 60
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 gaatcaaatc aaagcagccg atgtggcgta gtatgtgacc gagccctctg gctctgcttc 180
 ctgaaactgg aacagaacag aggaggggaag agcaccagag ctctgcttcc tgggggtccat 240
 gcagatgcag gatgcaggcg taaaaaccta ggagatgaac aagagtagag actgcatttt 300
 ttacccctct ttttttgtga atcttattgc tcttcagag gactgagggt attgtgtttg 360
 cattgtatta ttgattatta atgtcaatgg gaaaaataag atccttcgtg cc 412

<210> 54563
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F6

<400> 54563

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 tccagaatcg cgacagagtt gcagaggcca cgaatgaagc tgatgaacta aataatatca 120
 acaaaagtaa caataattat ctaagaaaga caagccaatt gcaagcacia atagagatgc 180
 cactgttgaa tatcaagctg attaccaaac tattggattg ccaaatatca ttgagaatat 240
 ttcaaaaact ggtcacattc ttgctgagat gcttagcgaa gaacaagggc taaatctaga 300
 gatagattaa aacatacctg atattggttt gacaatcttt aaaggacaga tggagc 356

<210> 54564
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F7

<400> 54564

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cgccagtcgc gcggcggccg tggaggcggc ggaggcagat acggaggctg gcgccgtgat 120
ggaggcggct acggcggagg cggtgaggc tacggcggcg gtcgcggagg ctacggctgc 180
cgtggcggat acggtggtgc acaccgcggc ggcggctaca ggaacaacga cggaactgg 240
aggaactgag c 251

<210> 54565

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G1

<400> 54565

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tgggatgcta ttaatgattt aagagctgac atgggtagac ttcagcaagg gatgagcagc 120
atgcagagga tgctggaagc gtgcatggac atgcagctgg aattgcagcg ttctgtgaga 180
caagaagtgt cagctgcctt gaatcggttt gcaggacctg aaggattgtc gatggatctg 240
tgtgacgatg gatcaaatg gaatcaggtg aggacaggaa cctgctgcgt atgctgtgat 300
tcacagattg attctctact gtacaggtgt gggcacatgt gtacttgctc gaaatgtgca 360
aatgagctgg tgcgcagcgg 380

<210> 54566

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-G2

<400> 54566

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gaatacgatc ttccgtcggg agattttcct tatgtggagc acttcaaaga ggtcttgagc 120
ggttacagct ttgacaagtt tgagaagggtg aagcccaaga tgatacaggc cgtggatgat 180

atgcttggat atgacattcc tgaacttctc aagaacttca gaaacccata cgagtgaacc 240
 catacaggcg gttgaaagat gacttcgatc tgcaacagaa tgagggattg attgtcaggc 300
 gatgtgaatc atagtgggtca atgtctcttg gggcgttcat tgccatccat gcttagccat 360
 tgntatataa ctttatgcat aagaatcata gagccattgc tcaagctttc accagacatc 420
 tgattatgta aaatccacaa aatagtaat 449

<210> 54567
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G3

<400> 54567

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 gaccaagcg ccatggcgcg cgccgcccc gacgcagacg cctacgatat cccgtgggtg 120
 gagaagtacc gccccgcccg cgtcgctgac gtcgtcggaa actccgatgc cgtcgccccg 180
 ctggagggtca ttgcccgcga cggcaacatg cccaacctca tctctccgg gcctccgggg 240
 actgggaaga cgacgagcat cctggcgctg gcgcatgagc tctcggggc cagctatcgt 300
 gatgccgtgc tggagctcaa tgccctcagat gacagggggt tggatgttgt gcggaacaag 360
 atcaagat 368

<210> 54568
 <211> 169
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G4

<400> 54568

aaaaaacata aaaaaataa aaaaaataat ttaaactggt aaaacacaaa aaaaaaatca 60
 agagaaacgg tcaaatataa aactgattta agacaaatat ataaagggcg tccattattc 120
 aaaatacttg ctgtctaaca acagcatgaa acttgatgac cctagtтта 169

<210> 54569
 <211> 373
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-G8

<400> 54569

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ccgactgcgg cctcctccgc gaggactatc tcgagtgcct ccaccactcc aaggagttcc 120

agcgcaggaa caggatctac aaggaggagc aacgtcagat cagagctgct gctcgtaagg 180

ccaaggagga agctgagggg gccctgctg ttgcagcaca ccattagtct ccctgtctat 240

tttttgtggt gttgttttct gttaactcat ctttggttca gttatgatgc taagggcaag 300

gcaataatct ccagctgttg gactacacag atttttttcc ccatgactta aatatcaaga 360

ctcattctgt gct 373

<210> 54570

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H1

<400> 54570

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gaataaacag ataaagacag aagataaaaa aaaataaaga aagtgaaaaa taaataaaaa 120

aaatgggtgg cagctatata ggttgagaaa tgatgttagg acatagcagt tatagaggtt 180

caatttagta aaacatatat aaaatgcagt gactgtagct gttaacagtc tgattgggta 240

aataatgga 249

<210> 54571

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H4

<400> 54571

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gcctaaatcc tctacatcct ggtgccatgg atatgagtca tatgacttgt acatataatc 120

ctgtttatct tatattctat ggaaaatgct tatttaactt gttaacaatg taattatgct 180
 tatgatattt ggatgatgat attgctcttg tttattacca tttttattag ttatccaact 240
 ttttaactctt gtaagttcca tccgtcttg atgggaatga ccattgagca agcaaaacag 300
 atagatcatt acatgtgctc ggattgtgct aaagtaaagtg gtgcaaagtg accctcaaat 360
 tcatactgaa tttcaccaaaa ctgagattct aagattgaat caaatatgct catgagataa 420
 atgc 424

<210> 54572
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-H5

<400> 54572
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 agtatccaca agtccaaggc tgagaaggcc agagagaaga cactttcaga tcagtttgag 120
 gccaaagcgtg caaagagcaa ggcaagccgt gagaggaaga ttgctaggag ggaggaaagg 180
 ctggcccagg gcccaagaga accaacagca cctgtcgcag cccagctcc atctactggg 240
 gtgccaaaga aagcaaagaa gtgaagtatg gaaacaaagc tgtagctttt tggactata 300
 taagcatgac tttggagcac ctgaagtatt ttgctgntct ataggttcgt gtctcaatat 360
 tctgagtctt gtatctctac cggctctgtg gataatgcat gccgtaagag ttgtttatgg 420
 agctcttggt gttac 435

<210> 54573
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H6

<400> 54573
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 aatccagaag cgtctagaag ggggaggtg tcgcccata cgtctgacc ggccgtcgcc 120
 atgggatgct ctggatccac tccaaagact gacgataatg gtaagaattt gaagaaacca 180

aagccttgga agcacacca agcaataacg ccggcacaac tcagacagat gcgtgatgaa 240
 ttttgggaca ctgctcctca ctatggtgga cagaaagaga tttgggacgc acttagagcc 300
 gctgcagact ctgacctagc gcttgcgcaa accatagtgg atagtgctgg catcatcgta 360
 tcgaattctg acatgacact ttgctacgat gaaagagggtg ccaaatatga gctttcaaag 420
 tacgttctaa gcgagccaac aaacttgatc aagga 455

<210> 54574
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-H8

<400> 54574

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 gaattcagca tgctggagct ggctaagggtg gtccaggaca ccatcgaccc agaggcgcac 120
 atcgagttcc gtccgaacac cgcagatgat ccgcacaagc gcaagcctga catcagccgc 180
 gcgaaagagc tcctcggctg ggagcccaag gtccccctcc gtgagggcct tccccgcatg 240
 gtcactgact tccgcaaacg tatcttcggg gaccaggaag ggtccaccga gtcagctggt 300
 ggcttttctt aagtgtcaa aacttggtga agtgacacgt ttgtatggta tatgacttga 360
 tacagttttg gcgctgtgct ctatacgtag ttgttatata gggatataaa tgtttgttaa 420
 agtacggaaa atagcctggc acgtataact atgtaacgac 460

<210> 54575
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-050-Q1-K1-A1

<400> 54575

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 tccccacta cgactcgagc gagtgggact ggctgcgcgg cgcgctggcc accatggacc 120
 gcgactacgg catcctcaac cgcgtgttcc acaacatcac ggacacgcac gtcgcgcacc 180

acctcttctc caccatgccg cactaccacg ccatggaggc caccaaggcg atcaggccca 240
 tcctcggcga ctactaccac ttcgacccga cccctgtcgc caaggcgacc tggcgcgagg 300
 ccgggggaatg catctacgtc gagcccaggg accgcaaggg cgtcttcttg tacaacaaga 360
 agttctagcc gccgncgctc gcagagctga ggacgctacc gtaggaatgg gagcagaaac 420
 ccagaggagg agacg 435

<210> 54576
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-049-Q1-K1-F5
 <400> 54576

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 tccacgaccc ggactaccat gtcgagctgt gcacagagct catcaactag atcatggact 180
 cgaccaaggc tgcggagggtg ctcgctaagc tgaactatgg aagcgaattc gcacacacgc 240
 tgggtggacac cctgatcctg accatgaacg gcataccaaa cagccttcaa aacaccggtt 300
 aaaccactaa gaggtgatct tgattattct cctgatcatt ggct 344

<210> 54577
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-049-Q1-K1-D3
 <400> 54577

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 ggaccacaca aaaagagaag cgaaaaaaag aacatgacta actacgcata aacaaaagcc 120
 aagcactaca acgccagaca gccccctata atgaagtggg aaatgaaacg agcaatcact 180
 agatccttac gatcccagga accactctaa atgtaccagc cgagacctac agaactacca 240
 gccacaagc caaccacgcc ctctactag gatattatct atccctactt tcc 293

<210> 54578

<211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-D5

<400> 54578

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cctcttcggg gagggcggtgc tgtatgccaa gaaggactac aacctggcga agcaccacaca 120
gattgatgtg cccaacctcc aggtgatcaa gctcatgcag agcttcaagt ccaaggagta 180
tgtcagagag accttctcct ggcagtacta ctactggtac ctcaccaacg atggcattga 240
gcacctacgc aactacctga acctnccgtc tgagattgtg cctgccacgc tcaagaagtc 300
tgccaggcca ctgggcgcgc catttggtc tggccctcct ggtgaccgnc caaggggccc 360
tggtcgtttt gaagacagac caaagtttgg agacagggat gagta 405
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<210> 54579
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D6

<400> 54579

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gtaccacagg tgtttgaatg ccaaagggga tgatgctggt gtttgcgaaa aatttgccaa 120
gtactacagg tccctttgcc ctggagaatg gggtgagaaa tggaacgagc agagggagaa 180
cgggacgttt ccaggacctc tctgaatgta ccgtccgaga ccttcagttg gaccagtcaa 240
caagttggcc aggcagtcct actgttccat tctgcattcc tacttcccga atcgtaaattg 300
ccttttgtcc cttgctcttc aaccagtcac cacaaaactg ttagtgatgc ctttcgtacg 360
cagctctaata aatttggtta cagatgcccc aca 393
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<210> 54580
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D8

<400> 54580

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atgtgctcca tatggaaaag gctgaaagaa gttgcctcat gctgcattat tgtgtaaagt 180

gagcaaccat ttctatctca ttaaccgctc tgctcttaac aagtgaatt aattttggtt 240

cttgataaat acttgatttt gaagggcagg ctggtttagt gatgagagtt gtttactaa 300

gtcaccggat cgtaagttcg aagcaacatc tctgcatttg cagaggaagg ctggtattga 360

tttattcttt ttctaggtcc cacacacgtg ggagtctctg gcactaggtc ttgccccttt 420

tataaatact tgattttgta ttaacagctt tt 452

<210> 54581

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E1

<400> 54581

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cggcgacgca gtcccagccg ctgccgacct gcccgttctg ccgcggcggc atcgcgcggc 120

tgggtggggc gacgcggacg agggctggcc acgacgacga gcgggacaag ctggagtcgc 180

ccaggcaccg ccggtcccggt cgggtccatga acctcagcgg cgacgcgggc agcaccagca 240

gcacactcat gggcagcatc gcctcgtcca tcggcaagat gggccgcccgg cgaacagata 300

gcagcgagca ggtcgacgac aagccgtagc agaatacttt catgcacccg tccattcata 360

atccacgtga aatcttgccg cgtcgtggcc gtcggcattc cattccttca ggaacgaaca 420

agccggtgtg ttttgagatt atttttggca aatgag 456

<210> 54582

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E4

<400> 54582

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ccggatcgtg atggagctgt acgccaacga ggtgcccaag accgcggaga acttccgcgc 180
gctgtgcacg ggcgagaagg gcgtaggcaa gtccgggaag ccgctccact acaagggtc 240
caccttccac cgcgtcatcc ccgagttcat gtgccagggc ggcgacttca cccgcggcaa 300
cggcaccggc ggcgagtcca tctacggcga gaagttcccc gacgagaagt tcgtgcgcaa 360
gcacaccgtc cccggtgtgc tctccatggc caacgcggg cccaacacca acggcttcc 419

<210> 54583
<211> 415
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3088-049-Q1-K1-E5
<400> 54583

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gagaagtact tcgacgacac ctacgagtac aggcacgtcg tcctcccgc agaggctgcc 180
aagctcctcc ccaagaaccg cctcctctcc gagaacgagt ggcgcgcgat cggagtgcag 240
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cgccgcccga tcaactacca gcagcagcag gaggcggctg ccgcgcagat gctggccaag 360
tgagcccctg gtggccaagg cggcgaccag gaacggttaa aaccctaacc ccctt 415

<210> 54584
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-049-Q1-K1-E6
<400> 54584

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atgttattat ctctctaccg ttcataattt attgtgtcgc tggtttaagt taacaaaatg 120

accgacataa tatatcatag aaccggactc caagagactc ctattagcag ctggcttcct 180
 ttgtaaatgc acggtttagag accgatcgat tctgacagtg cttgattact ttacggaggg 240
 attatcgaac ggtacgaaat gttgtctcaa agtacttagt aatgatgtag tcatagtctt 300
 gatgaccagt atacattctg ctttgaacat cgtctagtct attaaca 347

<210> 54585
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-E8

<400> 54585

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaaaaaagg ggggcccgtt 240
 ttaagaaccc aatgttacca tccttgcat gctacttcat aacctttata tagggccacc 300
 taaatataat ttacttgccc ctttttaaaa aacgtgaaac tggaaaaacc ctggctttac 360
 ccaatttaat cccctttaaa gaaaatccct tt 392

<210> 54586
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F2

<400> 54586

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 ataatcgaca aaggagcggt tggtatcttg aaagacaacc cagttgctgg cacaaatgg 180
 ggtgccacgt gggcctacga ggttgctggc caaactatgg tttgcccaat aatcattgag 240
 gatctttcac cacctggtca gatgcttgtt gagatgcttt gcgaggaaca agggctcttt 300
 ctggagatag ctgacaacat acgtggaatt ggtctgacgg tcttgaaagg acggatggag 360

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atggatatat ttctgtcgc 439

<210> 54587
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-F3

<400> 54587

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taaaaaaaaa acacataaat aaaatataaa aaaacaaaaa taaaaaaaag gatagactgt 180
aaaaaccctc acaataccta actcaattaa tcttgaataa aatacccttt atgctatcta 240
ccataataac aaaaagggtc ttactttaaa accctttcca acattttaat cattctgaat 300
tactaattaa actcactttg aaacaaatca ttatatccaa cagtttcata tattacaaac 360
aat 365

<210> 54588
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-D1

<400> 54588

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tgtctgaagt actgaagaca ggggggctag ctatctaatt ttcgtgccgc acgcatgagc 180
tgtaaggagg ccatgcttaa ttattctgtt gccgtgcta ctctatctat atgcgcctat 240
gcctccgtgc atgaactatg ctttaggtgg ttgctgctcc aactgtgggt ggtgtgcttt 300
tgcttttgtg tggtcgtatt gtatgcgtaa cctgacagat ggatccctga ttgctacatg 360
tttgaataat 370

<210> 54589

<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A8

<400> 54589

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ccgtgagaga tgtgcaggag gcctgtgtac atgatggata tgttctaccc aaattgtatg 120
caaagggttca tcaactgtgtc tcatgcgcaa tccatgcgca cattgtccgt gtccgctctc 180
gtgagaacag gaggaaccgt gagccccgc agcgcttcag acgccgggat gatggcccaa 240
ggcctgggtca gggcccgccg cgcccaggcg gtgcagctcc tgcagctgca gctgctgctg 300
ctcctcgtag ctaagttctg gaattagttt cggggcttag ttttgtagaa cattacctgt 360
tttgagaaac cattgttact gtatccccct gatgtcaaac ttttagcac aatttgtggt 420
tctgaaaaag ttggttgaat gttgcagct 449

<210> 54590
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B1

<400> 54590

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gctacagtta gccaatatgt tgtctgtcta tgtcctcgcg aagtactaga gcagtagcta 120
cataccgtgg tttgtccata tcctgttggt agatgatcaa gggtgattag atacatgttc 180
tggaaccaat gttcagatga caaattgcaa actaaacacc cttttgctct ctatctttat 240
tttttttttg caattgcaat gcgtgtaaag tacattatca atgtcagccc caggcatatc 300
aataaaaaaa aaaatgaaca cacaaaaaaa agaaatataa aaaaacattt agaacaaaag 360
ggaaagagac ctattgcgat ctgcaccaa aacaaaaagc attaacattg aagct 415

<210> 54591
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B2

<400> 54591

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gttccgcgct ttgaactcta cgataatatt cagcgatatg ggctgtcat ctccaccatc 120
ccgcagcagc tttctagggt ccagttcaac atgggtgagct cttagaaggt gtccagcagt 180
ttactcatat agtcatccaa aacattgttt ttgtactata gactgcactg ttcgcagagt 240
ggagtttaaa tatagctatg tggatgagta agctgctgag atagacgtag ggtgatgaca 300
caagaagata gtgtggccaa gacagctgtt ttgttgactt ccgttgagat ggatcttcaa 360
catgctgagc tagctgatca acgtgccttg actggtttta tttcattgtg ctggattttt 420
tttatct 427

<210> 54592

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B3

<400> 54592

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ggtgattgac cctgatgacc tgctggtata gtcgctaggg aggagcgaac taagcgagag 120
cgatcccaca tttgatcaga ggatgtgggt agagacattc aggggattat agacctggtc 180
cttgacaagg gacgagatta catattggaa cgtaaacagc atttggctac agatctatca 240
cgat 244

<210> 54593

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-B5

<400> 54593

cccacgcgtc cgcccacgcg tccgcccacg cgtccggttc gattcgcttc tgctgcagct 60
agggtttaga ggttttctgg gcgcggagcg gacggcggcg gcggcggcgg ctatggctgc 120

ggcggaggag gagatcgcg tgaaggagcc gctggatctg atacgcctca gcctcgacga 180
 gcgcatctac gtcaagctcc gatccgaccg cgagctgcgc ggcaagctcc atgcgtatga 240
 tcaacattta aacatgatac ttggagatgt tgaagaggtc gtgacaactg ttgagataga 300
 tgatgaaaca tatgaagaaa ttgtgcgcac cacgaaacgc actatcccct tcctttttgt 360
 ccgaagtgat ggtgtcatat tggtttcttc aacccttcgt a 401

<210> 54594
 <211> 339
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3088-049-Q1-K1-B8

<400> 54594

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 gtgcggtggt gcgccgggaa gcaacacttg ctcgccaaaga agaacaccaa gcgcaagaag 120
 agactctcca agatgctatt ttgactgct tcaacggggg cgatgtcggg gaggccgagg 180
 cgggagaggc caagtctgc cgggccacac ccggaccga gctccacggc ccgagttccc 240
 gggaagcggg gcacgtcggc aaaggggagg gccgggtcgc ggatgcagcg ctcgacgaac 300
 ttgacgagga ccagggacga gggccacaca gaggtgccc 339

<210> 54595
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C1

<400> 54595

cccacgcgtc cggccaaccg ttggatacat cgctcatgag gccatggtct agaaggacta 60
 gagcgtaaag gcagctggcg tgtggacatg cggcgcgacc aactacgtga cgcttgagat 120
 caccatcatt catagagact acgatgcata catcgtgaag aacctcatag atggcctaga 180
 caatgacaac agtactaata aggagatcga cgagcctgaa caacacgacc atagcaagag 240
 acagatcatg cagaaggatt tgatctacga gaacattaca tcgaaagggt cacatagacc 300
 tcaagcagcc atagaaggca acatacgacc tgagcattac aaggatgacc tagactaaaa 360

taccgatctt taccaaccaa gattgaatgg acaaaatgta tgctattgga caacattgaa 420
t 421

<210> 54596
<211> 189
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-049-Q1-K1-C4

<400> 54596

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cgtcctcagg aagatgagag cggctggtac gcacactgac aagaagaaat aaagcatttc 120
aagttcatga atgtgtnga nngagtagat gntcttctat tgcccaatat atatacgacc 180
atcagtctt 189

<210> 54597
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C5

<400> 54597

aacgaggggtg ctgatggaga gcatccacat gtccaattct gagaaggcca gggagaagac 60
gctctcggat cagttcgagg ccaggcgcgc caagagcaag gcgagtcgcg agaggaaagaa 120
tgctaggagg gaagagaggc tggcccaggg cccaagagaa ataccaccac cagtctcagc 180
cacagctccc actaccgggg caccgaataa agcaaagaag tgaagtattg caacaaagct 240
gcagcttact agtccagtag ttcgtaattt tggagcgccc tgatcaattt tgctgttata 300
cagcttcgtg tcttttattt tccaaaagct accgtacctg gattggtaga gatgtttacg 360
cagagtttct ttggaagaag atccgctcaa aaaagtttat ttggatc 407

<210> 54598
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-C7

<400> 54598

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tagttgggct agcatgtacg cattcagaat ctgaaaaaag accaacaatg cttgaagttg 120
tgcccttgct gaaaggcgaa tcaaaagaaa cccttcttaa gcttgaaaga gatgagttgt 180
tcagctcaga ctcgatggcg agttcacaag gaacaccaac ccagatggg ggacagact 240
ctgtgccaaa ggaagatcaa gaacttggtg gagcgtgaaa tgtgatatgt tgctactgta 300
ggcgatggta gaatgcggat ttgtgttatt gggtgatgtt tggtttgctg gggttgacat 360
gaatgtaaatt tgtataggca ttggtttctg taaagaagta tttaccatt ccttttgaga 420
gattaaagaa gagcatgggg gctgg 445

<210> 54599

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A6

<400> 54599

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ctatgggtggc gtttcaaggt ttcaggatgc aaggggtcgc aaccagtcta ttccatcagg 120
cagaggtgggt gatgggtggcg cacgcatggg gaatctgaac aggattggta gggtttagaa 180
gtgataattt tcagctcgag taagcctgaa attctcctaa aagccaagtt ttgaatcact 240
ggtttttaca tagtttctctg ttctgggctg agccatccac ctgtttacta catttcgttg 300
tagcctttta atttaagggg ctaggaaatt gaactaagag tttggtactg tgaactaaga 360
gtttggtact gtttctggg agtgtgactt cactccaata tttgatatct atctgtgaca 420

<210> 54600

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-G6

<400> 54600

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gcgagagctt gcattgtaac ctgtggaggg ctttgccctg ggctcaatac tgtcatcaga 120
gagttggttt gtggcttgtc ccacatgtac aacgttagca atgtcttcgg aatacagaat 180
gggtacaagg ggttctattc gagcaattat cttoecatga caccaaagag tgtgaatgat 240
atccacaaac gaggtggtac agttcttgga acatcacgag gtggccatga taccaaaaag 300
atcgttgaca acattcaaga tcgtggaatt aatcaggtat tcattatagg aggagatgga 360
actcanaagg gtgcatatga gatttacaag gaaatccgga gacgtggtct acaagtagct 420
gttgctggta tttcca 436

<210> 54601
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-G7
<400> 54601

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gacgaagtaa tcgtatgata atgataacac cattgtgaca aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaata aaaaaaaaaa aaaaaaaata aataaaaaaa aaaatggggg 240
gggagatttt taaaggagga aaatcaaaat tgagtgcacat gaaaagggat tttttttttt 300
tggggggcga aaaaataaaa ttgtggggcg ttaataaaaa aggggggttca tgaaaaa 357

<210> 54602
<211> 335
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3088-047-Q1-K1-G8
<400> 54602

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gtttaccatc cgcgagaagt tgaatgcggc aaccagcagc atgttgaagt cccagaagg 120
ttgcgctatt ttgtttttga aagggttgta tatgaaccat gatgggttatt aagaaaaaga 180

atacagggtca gttacacgat tttgtccacc acacagggtgg taagcttggg acttagctgt 240
 catttttttaa tattaaaaac ctaacgtgga aaaaaaaaaa aaaaaaaata aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag ggcgg 335

<210> 54603
 <211> 128
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-G9

<400> 54603

gtgactcgtg ggcttgccccg tttttgcatt atgtgaaaag gctttgatct ggaggagg 60
 gacactcttt cacacacctt accactgcac taccatcctt attatataaa gcgccggaaa 120
 ctgatgct 128

<210> 54604
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H1

<400> 54604

cccacgcgtc cgaaaatatc agtttttggg gcttattcag aaagaaacta aatgacttt 60
 caaatggcaa attgcacact ttttataagc tatgttggtc tcacattaga ccagttgatt 120
 aatattgaac aattaatata gcaaaaaaaaa tgccatgaac cagctactat gtatgaactt 180
 gataagtatt tttagcaggc actcaagact attacagtgg actattcgtg tgtcacaagt 240
 tttttgtaga accagcactt atgatggtat ttttccatt gaagctaaaa ctttttttat 300
 tggtagactg gttgctggga ttgaaagaaa aattaactaa gcgtgttatg agcacgtgat 360
 tatttttggg aagttgc 377

<210> 54605
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H11

<400> 54605

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ggcatttggga ctctacctt gaaaaaccag ataatatagc atgacgggtc tgtccagaag 120

atagcagaaa tcccggacga tcttaaagca atctacaaaa ctgtttggga gatcaagcag 180

aaaacttttag ttgacatggc ggttgaccgc ggatgctaca tcgaccaaag ccagagcctc 240

aatgtccaca tggagcaagc aaactttggg aagctgacgt ctcttcactt ccatgcttgg 300

tccaagggcc tgaaaactgg aatgtactat ctacgcacac gagctgctgc tgatgcgatc 360

aagttcacag tggataccac gcttctgaag gagaatggga acgggggttag cga 413

<210> 54606

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H12

<400> 54606

aataaaataa taaaaaaaaa aaaaaaaaaa aaataaaata aaaaaaaaaa aaaaaaaaaat 60

aaaaggggtg gccgttttat attataaaaaa ttacataacc tgttcatgaa acgaaataga 120

tttttttttag ttgaacttaa attaaatcaa ctgtgctgca tttaaaaaag tcataacttg 180

aaaaaccata tggttcacia aataaatggg tttgtaacaa atctccttt 229

<210> 54607

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-047-Q1-K1-H2

<400> 54607

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aattgaagat cacatggcta gcagatatag aggagctagt tcccctttca ttggttgaat 120

ttgattacct catcagcaag aaaaagctag aggaagacga ggacttcctc gacaatctca 180

acccttgca ctcacgggaa atcccagccc ttggagatgc gaacatgagg aacatcaagc 240

gtggagagat catacagctc gagaggaaag gctactatag gtgtgatgcc ccttttatca 300
gatcgtccaa accggtggtc ctgtttgcga tcccagatgg caggcagcag gcctcgctta 360
gctaggcatg gtgaccaccc tttngngcac atggaattcc tgaagtggcg at 412

<210> 54608
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H3

<400> 54608

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gatctatctg gctgggtgctg tgcttgcttg ttggctacct cggggaagct aaaaatatct 120
cgtcttgctg acatccttgc agttgccgcg tgaacaagta atctatgatg gcaatgtttg 180
cctggccatg aagtattatt actttcgctg aaaccgtgat gctattaaga cttaatTTTT 240
tttatggacc atcgaatgta aggcatacat gggttatgagt ttggctctcc cct 293

<210> 54609
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H4

<400> 54609

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ttagatgcaa gaaacaaggc aggaatgact ttgtcatagc cctgcaacca tcataagcca 120
tgtacatgaa actaacggtc aaaaaacccg gactggaaat agctaccgaa caaagcgaac 180
tggatctatc gtatgggatg cgttacaatg gcgtcaaaat cccagaagca tacgagcgtc 240
tcattcttga tacgattaga ggagaccagc agcac 275

<210> 54610
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H5

<400> 54610

gtcgcaccacg cgtacggaaa ggcgaaggaa tttagaaaga acgaggccca ggagagtgtc 60
atagctgaat catatggcgc aggtaatgat gaattgcggc aaaaaaagaa aaagaaatca 120
actaagtcca agtagcccta atcctcatgc ataatgacac tggcaattga gaaggattgc 180
atgagccatc cctataatta tgtcattcat gctgtgatcg tattagatga tgaaacaaaa 240
ttcgaacctt ccgct 255

<210> 54611

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H7

<400> 54611

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ggacagttag aattcctccc aaaattcttc atcgaagaac aacaattcca gttcttggga 120
cgattgggac gaccaaggca agaaggggtga acctgcaaaa ccgcacaaaa gcagtgactc 180
ctgggctggc tgggatgatg ggaaggacga tgggtttgat agtcctgggtt acaacaacca 240
caacagctct aacaagggga gcaaccacaa cgggacttcc ggtggctcat tttggaggga 300
aggcggcttc cgctgaaacc gttctcttct ccatagagtt atactttcag agttgttaca 360
ttg 363

<210> 54612

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H8

<400> 54612

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acattattaa ccttgaaag acctgggaca agcttcagtt ggccgccagg gtcacgttg 120
ccattgagaa tccgcaggac attatcgtgc agtctgctag gccctatggc cagaaggctg 180
tcctcaagtt tgcgcagtac actggtgccc atgccattgc tggcaggcac acttctggta 240

cattcacca

249

<210> 54613
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-H9

<400> 54613

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acatacttaa cggtcacatg aaatgcaacc gactatgatg gggattctgc tgaactgtat 120
gcgttcaaaa ggacaactat attgatccgc cccaccactg tgcttgtgat caacctgctt 180
ggcataatgg ctggcgttgc acttgctatc atcacgttgt tccaatgcat cacttccact 240

<210> 54614
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3088-049-Q1-K1-A1

<400> 54614

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gtgtacgaat ttgtaccaca aagggatagc cttagtttac tttcaaacct ggaaccgtgg 120
caatttctcc aattgagatg ttccagtctg tctttacact tggtgaagat gaaatgatgg 180
gtgatcctgc atatcttatt gctgtcatca tagagtttct acggagtgtc tcaaaggctg 240
ggcttaaggc tcttcacaac ctttatgtga tgacggcgac actactagct cgtagcaacc 300
gttacgctga aatagcattg tttgtgtcaa acaagattct tgagccgtgt aaagaactgg 360
caatgcaact tatggagctg ggtctgcagc acccgncaac gaggaagctg ggcatggaca 420
tgc 423

<210> 54615
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3088-047-Q1-K1-G5

<400> 54615

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gaaacggtag aacaagagaa gacctaacct ctaaggaaat tgccactgga gcctcagagt 120
tcagacacgg aagcgcgggc accaaatctc tgtttctgaag tgtctcaact gccagctcaa 180
aattgatget tgggtgcctct agtctactgc tcattgctca cagagtcaca ggtgtaggaa 240
gtttcagaag tgcggcttcg aagactgcat ttgattttga ctgagttgct gcctatatga 300
caatcaaagc tgcacaggct ccgaagtggc tgtgatgtgt tcttaaagag tcgcatcagc 360
gcaggaagag cccagatttt gaagttcatg tgtagctaaa tttcgatata agcttgaacg 420
gcttccctta gctgatgtat atacat 446

<210> 54616

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3088-049-Q1-K1-A3

<400> 54616

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aacaatagct ggagtgatat gaaacattag tgatgtagtt gtgggctttt gaactgcttc 180
aagctggagt gatgtcgttg tgggtgctttt gtgactgac tagtcgtgaa tgatattata 240
attgtgaaaa aaaaaaatga aatgaactaa aacatacacc tgtataatac attaaaaatg 300
aacactatta atttaaagga ctaagaaatt gaaactaaga attaggtact gtgaaactaa 360
gagtttggtg ccgaaaaaaaa aaggggggtga ctttttaag 399

<210> 54617

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3088-049-Q1-K1-A5

<400> 54617

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 tcgcatccaa aacccaact cgccccgcat cgatggggcc caaggccgag aagaaacccg 120
 cggcgaagaa gccggcggag gaggagccccg cggccgagaa ggcgccccgc gggaagaagc 180
 cgaaggcgga gaagcgggtc cccgctggca agtccgctgc caaggaaggc ggcgagggca 240
 agagggggcaa gaagaagggc aagaagagcg tggagacctt caagatctac atcttcaagg 300
 tgctgaagca ggtgcacccg gacattggca tctcctccaa ggccatgtcc atcatgaact 360
 ccttcattaa cgatatcttc gagaagctcg ctgctgaagc cgncaagctc gcgcgctata 420
 acaagaagcc taccattacc ttccgtgaga t 451

<210> 54618
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-E8
 <400> 54618

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 ttccagattg aagaaccagt tccaagctgg agagggcatg attacagttg actgcatcga 120
 aggttatcca ccggctcagtt tactgctagg aaagcatgtt tttctaagtg caggggattt 180
 ttatctggct agtcgacct agtttcgttt gctgcatccc aattttgact gcctcaccca 240
 ttgttttgcc gcaatcagct taaaacagct tggttccatt tatgcatctc accgaagtca 300
 tgtattcagt aaagggtgaaa gtctcaatgt acgcttatat gctatagcat gatatgcatt 360
 tgcgcccttg ggctgggcac atgtaagcta agattttaaa atattcggct atgggtccca 420
 tatgtg 426

<210> 54619
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3088-047-Q1-K1-E9
 <400> 54619

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<212> DNA

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<211> 400

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